

**IN THE UNITED STATES DISTRICT COURT  
FOR THE DISTRICT OF DELAWARE**

|                                 |   |                              |
|---------------------------------|---|------------------------------|
| RICOH COMPANY, LTD.,            | ) |                              |
|                                 | ) |                              |
| Plaintiff,                      | ) |                              |
|                                 | ) |                              |
| v.                              | ) | Civil Action No. 25-1095-JCG |
|                                 | ) |                              |
| ZOOM COMMUNICATIONS, INC. F/K/A | ) |                              |
| ZOOM VIDEO COMMUNICATIONS,      | ) |                              |
| INC.,                           | ) |                              |
|                                 | ) |                              |
| Defendant.                      | ) |                              |

**PLAINTIFF RICOH COMPANY, LTD.’S DISCLOSURE OF ASSERTED CLAIMS AND  
INFRINGEMENT CONTENTIONS**

Pursuant to Paragraphs 3 and 4 of the Court’s Scheduling Order dated June 15, 2026 (D.I. 53), Plaintiff Ricoh Company, Ltd. (“Ricoh”) hereby serves its infringement contentions as set forth below and in Exhibits A through G attached hereto. These disclosures are based on information reasonably and currently available to Ricoh, and without waiver of attorney-client privilege, work product protection, common interest privilege, or any other applicable privilege or protection. Ricoh reserves the right to amend or modify its infringement contentions as this action proceeds or in accordance with any other applicable rule or order.

**I. Disclosure of Asserted Claims and Infringement Contentions**

**a. Asserted Claims**

Subject to ongoing discovery and investigation, and based on available information obtained to date, Ricoh contends that Defendant Zoom Communications, Inc. f/k/a Zoom Video Communications, Inc. (“Zoom”) directly and indirectly infringes the following claims (collectively, the “Asserted Claims”) of the following patents (collectively, the “Asserted Patents”), either literally or under the doctrine of equivalents, under 35 U.S.C. § 271(a), (b), and (c):

- Claims 1-20 of U.S. Patent No. 10,904,487 (the “’487 Patent”)
- Claims 1-6 of U.S. Patent No. 10,909,059 (the “’059 Patent”)
- Claims 1-15 of U.S. Patent No. 10,931,917 (the “’917 Patent”)
- Claims 1-10 of U.S. Patent No. 11,256,464 (the “’464 Patent”)
- Claims 1-22 of U.S. Patent No. 11,289,093 (the “’093 Patent”)
- Claims 1-35 of U.S. Patent No. 11,516,278 (the “’278 Patent”)
- Claims 1-24 of U.S. Patent No. 11,546,548 (the “’548 Patent”)

Ricoh reserves the right to supplement the Asserted Claims following discovery and/or claim construction.

#### **b. Accused Instrumentalities**

Subject to ongoing discovery and investigation, and based on available information obtained to date, Ricoh contends that the Zoom Meetings, Zoom Rooms, Zoom Cloud Recording, Zoom Sessions, Zoom Webinars, Zoom Web App, Zoom Web Portal, Zoom’s video conference management apparatus or system, and associated software, hardware, and accessories, regardless of the brand of hardware on which such instrumentalities are used or installed, (the “Accused Instrumentalities”) infringe the Asserted Claims listed in the table below under 35 U.S.C. § 271(a), § 271(b), and/or § 271(c).

On information and belief, Zoom supplies its proprietary software that, upon activation, engagement, or use by any user or operator, takes functional control of the underlying hardware on which it runs, regardless of the make, brand, or original configuration of that hardware. Once Zoom’s software is installed and activated, the host device—whether a desktop computer, laptop, tablet, smartphone, conference room system, or other computing device—ceases to function as a general-purpose machine with respect to the claimed functionalities of the Asserted Claims and instead operates as a Zoom special purpose computer: a device that is directed, managed, and/or

controlled by Zoom’s proprietary software to perform the specific functions of video conferencing that are claimed in the Asserted Patents. Accordingly, the Accused Instrumentalities encompass not only Zoom’s software but also each and every hardware device on which Zoom’s software is activated, engaged, or used, as such devices become a Zoom special purpose computer for purposes of the infringing acts described herein.

| <b>Patent</b> | <b>Asserted Claims</b> | <b>Accused Instrumentalities<br/>(regardless of the brand of hardware on which such instrumentalities are used or installed)</b>                                                                  |
|---------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| '487          | 1-20                   | Zoom Meetings, Zoom Rooms, Zoom Sessions, Zoom Webinar, Zoom Web App, Zoom Web Portal, Zoom Whiteboard and associated software, hardware and accessories.                                         |
| '059          | 1-6                    | Zoom Meetings, Zoom Rooms, Zoom Sessions, Zoom Webinar, Zoom Web App, Zoom Web Portal, and associated software, hardware and accessories.                                                         |
| '917          | 1-15                   | Zoom Meetings, Zoom Rooms, Zoom Sessions, Zoom Webinar, Zoom Web App, Zoom Web Portal, Zoom’s video conference management apparatus or system, and associated software, hardware and accessories. |
| '464          | 1-10                   | Zoom Meetings, Zoom Rooms, Zoom Sessions, Zoom Webinar, Zoom Web App, Zoom Web Portal, and associated software, hardware and accessories.                                                         |
| '093          | 1-22                   | Zoom Meetings, Zoom Rooms, Zoom Sessions, Zoom Webinar, Zoom Web App, Zoom Web Portal, Zoom’s video conference management apparatus or system, and associated software, hardware and accessories. |
| '278          | 1-35                   | Zoom Meetings, Zoom Rooms, Zoom Sessions, Zoom Webinar, Zoom Web App, Zoom Web Portal, Zoom’s video conference management                                                                         |

|      |      |                                                                                                                                                                                                   |
|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |      | apparatus or system, and associated software, hardware and accessories.                                                                                                                           |
| '548 | 1-24 | Zoom Meetings, Zoom Rooms, Zoom Sessions, Zoom Webinar, Zoom Web App, Zoom Web Portal, Zoom's video conference management apparatus or system, and associated software, hardware and accessories. |

Ricoh's identification of the Accused Instrumentalities is based on information reasonably available at this time. Ricoh reserves the right to amend and/or supplement its identification of the Accused Instrumentalities as new information becomes available through discovery, additional factual investigation, the Court's claim construction rulings, or other relevant circumstances. Specifically, Ricoh reserves the right to amend and/or supplement its identification of Accused Instrumentalities, as well as other information contained in this document and the Exhibits hereto, based on new information learned during discovery, including amending the Accused Instrumentalities to add newly released products or programs, or other equivalent or infringing products or programs ascertained through discovery. The identified Accused Instrumentalities include all product systems listed herein, together with any associated products (whether alone or in combination) that operate in a reasonably similar manner.

### **c. Infringement Charts**

Subject to ongoing discovery and investigation, and based on available information obtained to date, Ricoh contends that each element of each Asserted Claim is found within the Accused Instrumentalities as shown in the infringement charts attached as Exhibits A through G.

| <b>Exhibit</b> | <b>Exhibit Description</b>      |
|----------------|---------------------------------|
| <b>A</b>       | Claim chart for the '487 Patent |
| <b>B</b>       | Claim chart for the '059 Patent |

|          |                                 |
|----------|---------------------------------|
| <b>C</b> | Claim chart for the '917 Patent |
| <b>D</b> | Claim chart for the '464 Patent |
| <b>E</b> | Claim chart for the '093 Patent |
| <b>F</b> | Claim chart for the '278 Patent |
| <b>G</b> | Claim chart for the '548 Patent |

These disclosures, including Exhibits A through G, are based on the present state of Ricoh's knowledge, without the benefit of discovery. Ricoh's investigation is ongoing, and no claim construction order has been entered in this action. Ricoh reserves all rights to supplement, amend, and/or otherwise modify its infringement contentions consistent with the Court's orders in this case.

The parties have not exchanged claim terms or proposed claim constructions, and Zoom has not served its preliminary invalidity contentions and accompanying document production. Ricoh is not required to disclose claim construction positions currently, and does not. Ricoh's disclosures, inclusive of Exhibits A through G, should not be construed as setting forth Ricoh's claim construction positions. To the extent Zoom asserts that a particular claim construction position is implied by these disclosures, including Exhibits A through G, Ricoh denies and objects to any such assertion.

**d. Direct and Indirect Infringement**

Ricoh contends that Zoom both directly and/or indirectly infringes the Asserted Claims.

Ricoh contends that Zoom infringes the Asserted Claims under 35 U.S.C. § 271(a), by making, using, offering to sell, and/or selling in the United States and/or importing into the United States, directly and/or indirectly, on its own and/or through its agents, the Accused

Instrumentalities, their components and processes, and/or products and services containing the same that incorporate the fundamental technologies covered by the Asserted Claims.

Zoom's direct infringement is grounded in the nature of how its software operates. Zoom supplies its proprietary software that, upon activation, engagement, or use, seizes functional control of the hardware on which it runs and transforms that hardware into a Zoom special purpose computer. At the moment Zoom's proprietary software is activated, it directs the processing, memory, network, audio/visual, and communication resources of the host device in accordance with Zoom's proprietary instructions. The hardware, regardless of the brand of hardware on which such instrumentalities are used or installed, once converted into a Zoom special purpose computer, practices each and every element of one or more of the Asserted Claims. Accordingly, Zoom directly infringes the Asserted Claims by making, using, offering to sell, and/or selling the Accused Instrumentalities, which include the Zoom special purpose computers created whenever and wherever Zoom's software is installed, activated, engaged, or used on any hardware device.

Ricoh further contends that Zoom infringes the Asserted Claims under 35 U.S.C. § 271(b), and/or 35 U.S.C. § 271(c). Zoom, at a minimum, has known of the Asserted Patents at least as early as April 11, 2024, when counsel for Ricoh sent a Notice Letter to Zoom alerting Zoom to its infringement.

Since at least the above-mentioned date when Zoom was on notice of its infringement, Zoom has actively induced, under 35 U.S.C. § 271(b), its distributors, customers, subsidiaries, importers, and/or consumers that import, purchase, or sell the Accused Instrumentalities that include or are made using all of the elements of one or more of the Asserted Claims to directly infringe one or more of the Asserted Claims by using, offering for sale, selling, and/or importing the Accused Instrumentalities. Since at least the notice provided on the above-mentioned date,

Zoom does so with knowledge, or with willful blindness of the fact, that the induced acts constitute infringement of the Asserted Patents. Zoom intends to cause, and has taken affirmative steps to induce infringement by its distributors, importers, customers, subsidiaries, and/or consumers by at least, *inter alia*, creating advertisements that promote the infringing use of the Accused Instrumentalities, creating and/or maintaining established distribution channels for the Accused Instrumentalities into and within the United States, manufacturing the Accused Instrumentalities in conformity with U.S. laws and regulations, distributing or making available instructions or manuals for these products to purchasers and prospective buyers, and testing the Accused Instrumentalities, and/or providing technical support, replacement parts, or services for these products to these purchasers in the United States. In particular, each time a Zoom customer or end user installs and/or activates any of the Accused Instrumentalities, Zoom's proprietary software takes control of that user's hardware and converts it into a Zoom special purpose computer. Zoom actively encourages, enables, and instructs this—through its website, documentation, technical support, and product design—knowing full well that once its software is activated, the resulting Zoom special purpose computer will practice the inventions claimed in the Asserted Patents. For example, Zoom advertises and provides technical support to its customers using the Accused Instrumentalities at Zoom.com and Support.Zoom.com. See, e.g., <https://www.zoom.com/en/products>; <https://zoom.us/download>; <https://support.zoom.com/hc/en>.

In addition, since at least the above-mentioned date when Zoom was on notice of its infringement, Zoom has contributorily infringed, under 35 U.S.C. § 271(c), the Asserted Claims. For example, Zoom contributes to the direct infringement of such claims by distributors, customers, subsidiaries, importers, and/or consumers that use, import, purchase, or sell the Accused Instrumentalities. These third parties directly practice one or more of the Asserted Claims

each time they operate or deploy the Accused Instrumentalities regardless of the brand of hardware on which such instrumentalities are used or installed. Each such operation results in the creation and use of a Zoom special purpose computer—a hardware device that, by virtue of Zoom’s proprietary software having been activated, engaged, or used on it, is under Zoom’s functional control and performs the operations in accordance with Zoom’s design and instructions.

The Accused Instrumentalities are a material part of the invention of the Asserted Patents. The Asserted Patents are directed to inventive technology relating to video conferencing management, cloud-based recording, session control, and network-based communication systems, among other things. The Accused Instrumentalities, including but not limited to the software, firmware, application/client interfaces, associated hardware and back-end systems that implement Zoom’s video conferencing, cloud recording, communication management, and related functionality, embody and implement the technology claimed in the Asserted Patents. They are not peripheral or incidental to the inventions; they are central to the claimed subject matter. Moreover, the Accused Instrumentalities are not a staple article of commerce suitable for substantial non-infringing use. The specific components of the Accused Instrumentalities that implement the patented functionality, including the software, systems, and methods that perform the claimed video conferencing management, cloud-based recording, and related operations, are not general-purpose tools or commodity hardware. They are specifically designed, engineered, and optimized by Zoom to perform the functions claimed in the Asserted Patents. The predominant and primary purpose of these components is, and has always been, to practice the inventions claimed in the Asserted Patents.

**e. Literal Infringement And Infringement Under DOE**

Subject to ongoing discovery and investigation, Ricoh contends that each element of each Asserted Claim is literally infringed as shown in Exhibits A through G, and that to the extent a claim is not literally infringed, it is infringed under the doctrine of equivalents.

With respect to literal infringement, the Accused Instrumentalities, including the Zoom special purpose computers that result when Zoom's proprietary software is activated, engaged, or used on any hardware device, literally infringe each and every element of the Asserted Claims.

To the extent any individual claim element is argued not to be literally present in the Accused Instrumentalities, such an element is satisfied under the doctrine of equivalents. Any differences between the literal language of a given claim element of the Asserted Claims and the corresponding functionality in the Accused Instrumentalities including the Zoom special purpose computers are insubstantial. The Accused Instrumentalities perform substantially the same function, in substantially the same way, to achieve substantially the same result as the corresponding claim element.

As indicated above, discovery is necessary to further develop Ricoh's infringement positions—either literal or under the doctrine of equivalents—and the parties have not yet exchanged their claim construction positions. Ricoh expressly reserves the right to amend and supplement its position on whether there is infringement under the doctrine of equivalents of any other elements of any asserted claims after discovery from Zoom and/or pending this Court's claim construction order.

**f. Priority Dates**

These disclosures are based on the present state of Ricoh's knowledge. Ricoh's investigation is ongoing, and Ricoh reserves all rights to modify the positions taken in these initial disclosures.

Ricoh contends that the Asserted Claims of the **'487 Patent** are entitled to a priority date no later than May 9, 2015 based on U.S. Patent Application No. 14/708,186.

Ricoh contends that the Asserted Claims of the **'059 Patent** are entitled to a priority date no later than March 31, 2014 based on Japanese Patent Application No. 2014-071406.

Ricoh contends that the Asserted Claims of the **'917 Patent** are entitled to a priority date no later than May 6, 2010 based on Japanese Patent Application No. 2010-106610.

Ricoh contends that the Asserted Claims of the **'464 Patent** are entitled to a priority date no later than March 22, 2012 based on Japanese Patent Application No. 2012-065917.

Ricoh contends that the Asserted Claims of the **'093 Patent** are entitled to a priority date no later than November 29, 2018 based on Japanese Patent Application No. 2018-223360.

Ricoh contends that the Asserted Claims of the **'278 Patent** are entitled to a priority date no later than August 1, 2012 based on Japanese Patent Application No. 2012-171192.

Ricoh contends that the Asserted Claims of the **'548 Patent** are entitled to a priority date no later than February 28, 2011 based on Japanese Patent Application No. 2011-042365.

#### **g. Practicing Products**

Based on information gathered to date, Ricoh's video conferencing products such as Unified Communication System (UCS), Toruno, Pekoe, and whiteboard devices practice one or more of the Asserted Claims of the Asserted Patents.

#### **h. Timing**

**'487 Patent:** The date of first infringement for the Asserted Claims of the '487 Patent is January 26, 2021. The start of claimed damages for the '487 Patent is January 26, 2021. The end of claimed damages for the Asserted Claims of the '487 Patent is through at least when defendant is enjoined or the expiration of the patent.

**'059 Patent:** The date of first infringement for the Asserted Claims of the '059 Patent is February 2, 2021. The start of claimed damages for the Asserted Claims of the '059 Patent is February 2, 2021. The end of claimed damages for the Asserted Claims of the '059 Patent is through at least when defendant is enjoined or the expiration of the patent.

**'917 Patent:** The date of first infringement for the Asserted Claims of the '917 Patent is February 23, 2021. The start of claimed damages for the Asserted Claims of the '917 Patent is February 23, 2021. The end of claimed damages for the Asserted Claims of the '917 Patent is through at least when defendant is enjoined or the expiration of the patent.

**'464 Patent:** The date of first infringement for the Asserted Claims of the '464 Patent is February 22, 2022. The start of claimed damages for the Asserted Claims of the '464 Patent is February 22, 2022. The end of claimed damages for the Asserted Claims of the '464 Patent is through at least when defendant is enjoined or the expiration of the patent.

**'093 Patent:** The date of first infringement for the Asserted Claims of the '093 Patent is March 29, 2022. The start of claimed damages for the Asserted Claims of the '093 Patent is March 29, 2022. The end of claimed damages for the Asserted Claims of the '093 Patent is through at least when defendant is enjoined or the expiration of the patent.

**'278 Patent:** The date of first infringement for the Asserted Claims of the '278 Patent is November 29, 2022. The start of claimed damages for the Asserted Claims of the '278 Patent is November 29, 2022. The end of claimed damages for the Asserted Claims of the '278 Patent is through at least when defendant is enjoined or the expiration of the patent.

**'548 Patent:** The date of first infringement for the Asserted Claims of the '548 Patent is January 3, 2023. The start of claimed damages for the Asserted Claims of the '548 Patent is January

3, 2023. The end of claimed damages for the Asserted Claims of the '548 Patent is through at least when defendant is enjoined or the expiration of the patent.

Ricoh is entitled to recover at least a reasonable royalty for sales made between the issue date of each Asserted Patent and the end of this lawsuit, as well as an ongoing reasonable royalty for any post-suit infringement. Ricoh is entitled to recover a reasonable royalty “beginning on the date of publication of the application” underlying each of the Asserted Patents pursuant to 35 U.S.C. § 154(d). Ricoh reserves the right to seek all remedies for any infringement occurring after judgment, including ongoing royalties should damages take the form of a running royalty, otherwise lump sum damages may apply until the expiration of the patent.

Ricoh’s investigation is ongoing, and Ricoh reserves the right to supplement this disclosure.

**i. Willful Infringement**

Ricoh contends that Zoom has willfully infringed, and continues to willfully infringe, the Asserted Patents. Zoom’s willful infringement has been deliberate, intentional, and in conscious and reckless disregard of Ricoh’s patent rights. As set forth below, Zoom had actual knowledge of the Asserted Patents, actual knowledge that its conduct constituted infringement of those patents, and nonetheless deliberately continued its infringing conduct without taking any steps to avoid or remediate that infringement.

Zoom has had actual knowledge of the Asserted Patents since at least April 11, 2024. On that date, counsel for Ricoh sent a Notice Letter to Zoom and its counsel specifically identifying the Asserted Patents by number and expressly informing Zoom that those patents are relevant to Zoom’s products and services, such as Zoom Rooms, Zoom Meetings, Zoom Web Client, Zoom Cloud Recording, and Zoom’s video conferencing management system. This Notice Letter placed

Zoom on actual, specific, and unambiguous notice of each of the Asserted Patents and their direct relevance to the Accused Instrumentalities.

Zoom not only knew of the Asserted Patents, but also knew, or reasonably should have known, that its conduct constituted infringement. Upon information and belief, based on Zoom's own claim that it operates an "industry-leading video communications and collaboration platform," Zoom has long known that its products and services are built upon foundational technologies that may be patented by others. The Asserted Patents were published and publicly available, and Ricoh's innovative video conferencing technology and related patents were known or reasonably knowable to a company of Zoom's size, sophistication, and market position. At a minimum, the risk that Zoom's Accused Instrumentalities infringed the Asserted Patents was either actually known to Zoom or so obvious that it should have been known to Zoom no later than April 11, 2024.

Notwithstanding actual and specific notice of the Asserted Patents and the Accused Instrumentalities, Zoom has not ceased its infringing conduct, has not sought a license from Ricoh, has not presented any good-faith non-infringement defense, and has not taken any remedial action of any kind. Instead, Zoom has deliberately continued to make, use, sell, offer for sale, and/or import the Accused Instrumentalities into the United States in the same infringing manner as before it received notice, in conscious and reckless disregard of Ricoh's patent rights.

## **II. DOCUMENT PRODUCTION ACCOMPANYING DISCLOSURE**

With this disclosure of infringement contentions, Ricoh produces documents that are in Ricoh's possession, custody, or control that are responsive to paragraph 4 of the Scheduling Order. In addition, Ricoh also produces to Zoom copies of the documents cited in the claim charts attached to this disclosure. Categories to which these documents correspond are set out by production number below. This preliminary identification of documents is for convenience and is not an

admission that each document falls within any exemplary categories, or that any document qualifies as prior art. Ricoh reserves its right to amend and/or supplement its disclosure in this section as its investigation proceeds. Any document identified within one particular category may be relevant to other categories and/or used by Ricoh for purposes of showing conception and/or reduction to practice.

**A. Documents responsive to paragraph 4(b)**

Ricoh identifies documents in the following Bates ranges, which are produced concurrently herewith, as potentially responsive to paragraph 4(b): RCL-00000001 – RCL-00000213.

**B. Documents responsive to paragraph 4(c)**

Copies of the file histories of the asserted patents have been produced at: RCL-00000241 ('487); RCL-00001110 ('059); RCL-00000839 ('917); RCL-00000352 ('464); RCL-00001872 ('093); RCL-00000569 ('278) and RCL-00001426 ('548).

**C. Documents responsive to paragraph 4(d)**

Ricoh identifies documents in the following Bates ranges, which are produced concurrently herewith, as potentially responsive to paragraph 4(d): RCL-00002514 – RCL-00002527.

**D. Documents responsive to paragraph 4(e)**

Ricoh identifies documents in the following Bates ranges, which are produced concurrently herewith, as potentially responsive to paragraph 4(e): RCL-00002535 – RCL-00002956.

**E. Documents responsive to paragraph 4(f)**

Ricoh identifies documents in the following Bates ranges, which are produced concurrently herewith, as potentially responsive to paragraph 4(f): RCL-00002957 – RCL-00003029.

**F. Documents responsive to paragraph 4(g)**

Ricoh identifies documents in the following Bates ranges, which are produced concurrently herewith, as potentially responsive to paragraph 4(g): the documents identified as potentially responsive to paragraph 4(f).

**G. Documents responsive to paragraph 4(h)**

Ricoh identifies documents in the following Bates ranges, which are produced concurrently herewith, as potentially responsive to paragraph 4(h): the documents identified as potentially responsive to paragraphs 4(f) and 4(g).

*Of Counsel:*

Brett C. Govett  
Norton Rose Fulbright US LLP  
2200 Ross Avenue, Suite 3600  
Dallas, TX 75201-7932  
(214) 855-8000  
brett.govett@nortonrosefulbright.com

Michael V. Solomita  
Norton Rose Fulbright US LLP  
1301 Avenue of the Americas  
New York, NY, 10019-6022  
(212) 408-5420  
michael.solomita@nortonrosefulbright.com

Dated: July 31, 2026

ASHBY & GEDDES

*/s/ John G. Day*

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John G. Day (#2403)  
Andrew C. Mayo (#5207)  
500 Delaware Avenue, 8th Floor  
P.O. Box 1150  
Wilmington, DE 19899  
(302) 654-1888  
[jday@ashbygeddes.com](mailto:jday@ashbygeddes.com)  
[amayo@ashbygeddes.com](mailto:amayo@ashbygeddes.com)

*Attorneys for Plaintiff  
Ricoh Company, Ltd.*

# Exhibit A

**Exhibit A**  
**Infringement Claim Chart for U.S. Patent No. 10,904,487**

Ricoh Company, Ltd. (“Ricoh”) provides evidence of infringement of claims 1-20 of U.S. Patent No. 10,904,487 (hereinafter “the ’487 Patent”) by Defendant Zoom Communications, Inc. f/k/a Zoom Video Communications, Inc. (“Zoom”). In support thereof, Ricoh provides the following claim chart. “Accused Instrumentality” as used herein refers to Zoom’s video conferencing products and services, including but not limited to, Zoom Meetings, Zoom Rooms, Zoom Sessions, Zoom Webinar, Zoom Whiteboard, and associated software and accessories.

This claim chart demonstrates Zoom’s infringement and provides notice of such infringement, by comparing each element of the asserted claim to corresponding components, aspects, and/or features of the Accused Instrumentality. This claim chart is not intended to constitute an expert report on infringement. This claim chart includes information provided by way of example, and not by way of limitation.

Zoom has not produced any documents requested in discovery, including its core technical documents, to enable Ricoh to properly analyze and identify all Accused Instrumentality, associated functionalities, and related Zoom software. An analysis of Zoom’s (or other third parties’) technical documentation and/or software source code may assist in fully identifying all infringing features and functionality. Accordingly, Ricoh reserves the right to supplement this infringement analysis once such information is made available to Ricoh. Furthermore, Ricoh reserves the right to revise this infringement analysis, as appropriate, upon issuance of a court order construing any terms recited in the claims of the ’487 Patent.

Unless otherwise noted, Ricoh contends that Zoom directly infringes the ’487 Patent in violation of 35 U.S.C. § 271(a) by selling, offering to sell, making, using, and/or importing the Accused Instrumentality. The following exemplary analysis demonstrates that infringement. Unless otherwise noted, Ricoh further contends that the evidence below supports a finding of indirect infringement under 35 U.S.C. §§ 271(b) and/or (c), in conjunction with other evidence of liability under one or more of those subsections. Zoom makes, uses, sells, imports, or offers for sale in the United States, or has made, used, sold, imported, or offered for sale in the past, without authority, or induces others to make, use, sell, import, or offer for sale in the United States, or has induced others to make, use, sell, import, or offer for sale in the past, without authority, products, equipment, or services that infringe claims 1-20 of the ’487 Patent, including without limitation, the Accused Instrumentality.

Unless otherwise noted, Ricoh believes and contends that each element of the claims asserted herein is literally met through Zoom’s provision of the Accused Instrumentality. However, to the extent that Zoom attempts to allege that any asserted claim element is not literally met, Ricoh believes and contends that such elements are met under the doctrine of equivalents. More specifically, in its investigation and analysis of the Accused Instrumentality, Ricoh did not identify any substantial differences between the elements of the patent claims and the corresponding features of the Accused Instrumentality, as set forth herein. In each instance, the identified feature of the Accused Instrumentality performs at least substantially the same function in substantially the same way to achieve substantially the same result as the corresponding claim element. In the event that a claim element is deemed to be missing under a literal infringement analysis (e.g., due to the Court’s claim construction), Plaintiff reserves the right to demonstrate the presence of a substantial equivalent of such an element and to pursue infringement under the Doctrine of Equivalents.

To the extent the chart of an asserted claim relies on evidence about certain specifically identified Accused Instrumentality, Ricoh asserts that, on information and belief, any similarly functioning products or instrumentalities also infringe the charted claim. Ricoh reserves the right to amend this infringement analysis based on other products made, used, sold, imported, or offered for sale by Zoom. Ricoh also reserves the right to amend this infringement analysis to chart other claims of the '487 Patent, not listed in the claim chart, that are infringed by the Accused Instrumentality. Ricoh further reserves the right to amend this infringement analysis by adding, subtracting, or otherwise modifying content in the Accused Instrumentality.

All infringement contentions set forth herein for any independent patent claims are hereby incorporated by reference into the infringement contentions alleged for any dependent claims that depend on independent claims, as if fully set forth herein.

| Claims of US Patent No. 10,904,487            | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1[pre] A whiteboard device comprising:</p> | <p>To the extent the preamble is limiting, a whiteboard device that incorporates the Accused Instrumentality directly infringes claim 1 of the '487 Patent. For example, a Zoom user's device, such as a desktop, laptop, tablet, DTEN D7, or other electronic device on which the Accused Instrumentality is installed or operated is a whiteboard device.</p> <p>DTEN D7 as a non-limiting example is shown below:</p> <p>The <b>DTEN D7</b> is a complete <b>ZOOM</b> Rooms TOUCH conferencing installation, including all hardware and software. The built-in, AI enhanced, 16 element microphone array with 4K camera, offers a best-in-class conferencing, wireless, screen sharing, and white boarding experience. <i>(All software is pre-installed.)</i></p> <p><a href="https://help.dten.com/hc/en-us/article_attachments/900006433903">https://help.dten.com/hc/en-us/article_attachments/900006433903</a> (accessed on July 9, 2025).</p> |



55" DTEN D7

## SPECIFICATIONS

All-in-One Video  
Conferencing for Face to Face  
Meeting Experience



\*D7 in this image is not in 1:1 ratio



## Claims of US Patent No. 10,904,487

## ACCUSED INSTRUMENTALITY

|               |                                                                                                                                                                                                         |                                    |                                                                                                                                              |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| PRODUCT       | D7 55"                                                                                                                                                                                                  | INPUTS AND OUTPUTS                 | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1                                            |
| SOFTWARE      | DTEN D7 OS, provisioned by D7 OS                                                                                                                                                                        | POWER                              | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz                                                                                     |
| ALL-IN-ONE D7 | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers                                                                                                                  | PRODUCT DIMENSIONS                 | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)                                                                                               |
| DISPLAY       | LED 75" , 4K , 16:9<br>Capacitive Touch Screen                                                                                                                                                          | PRODUCT WEIGHT                     | 50.7 lb (23 kg)                                                                                                                              |
| CAMERA SYSTEM | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees                                                                           | PACKAGE DIMENSIONS                 | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm)                                                                                                        |
| AUDIO SYSTEM  | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction | PACKAGE WEIGHT                     | 77 lb (35 kg)                                                                                                                                |
| NETWORK       | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support                                        | OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH |
|               |                                                                                                                                                                                                         | LANGUAGE SUPPORT                   | English<br>* Additional languages to be supported<br>in future software release                                                              |
|               |                                                                                                                                                                                                         | SYSTEM REQUIREMENT                 | Zoom Rooms License                                                                                                                           |
|               |                                                                                                                                                                                                         | APPROVALS AND COMPLIANCE           | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending)                                                                                    |

[https://help.dten.com/hc/en-us/article\\_attachments/900000230303](https://help.dten.com/hc/en-us/article_attachments/900000230303) (accessed on July 9, 2025).

Non-limiting examples of Zoom user's devices such as desktop computers, laptops, and mobile devices (regardless of hardware brand) are shown below:



| Claims of US Patent No. 10,904,487 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p><a href="https://wigatos.com/22172-cara-zoom-meeting-di-laptop/">https://wigatos.com/22172-cara-zoom-meeting-di-laptop/</a> (accessed on July 7, 2026)</p>  <p><a href="https://dailybruin.com/2024/04/23/research-reveals-delaying-in-person-medical-residency-visits-can-reduce-inequities">https://dailybruin.com/2024/04/23/research-reveals-delaying-in-person-medical-residency-visits-can-reduce-inequities</a> (accessed on July 7, 2026)</p>  <p><a href="https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/">https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/</a> (accessed on July 7, 2026)</p> |

| Claims of US Patent No. 10,904,487 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p>On information and belief, Zoom supplies its proprietary software that, upon activation, engagement, or use by any user or operator, takes functional control of the underlying hardware on which it runs, regardless of the make, brand, or original configuration of that hardware. Once Zoom’s software is installed and activated, the host device—whether a desktop computer, laptop, tablet, smartphone, conference room system such as DTEN D7, or other computing device—ceases to function as a general-purpose machine with respect to the claimed functionalities and instead operates as a Zoom special purpose computer: a device that is directed, managed, and/or controlled by Zoom’s proprietary software to perform the specific functions of video conferencing. Accordingly, the Accused Instrumentalities encompass not only Zoom’s software but also any hardware device on which Zoom’s software is activated, engaged, or used, as such devices become a Zoom special purpose computer for purposes of the infringing acts described herein.</p> |
| 1[a] a display;                    | A Zoom user’s device such as DTEN D7 includes a display. A non-limiting example is shown below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

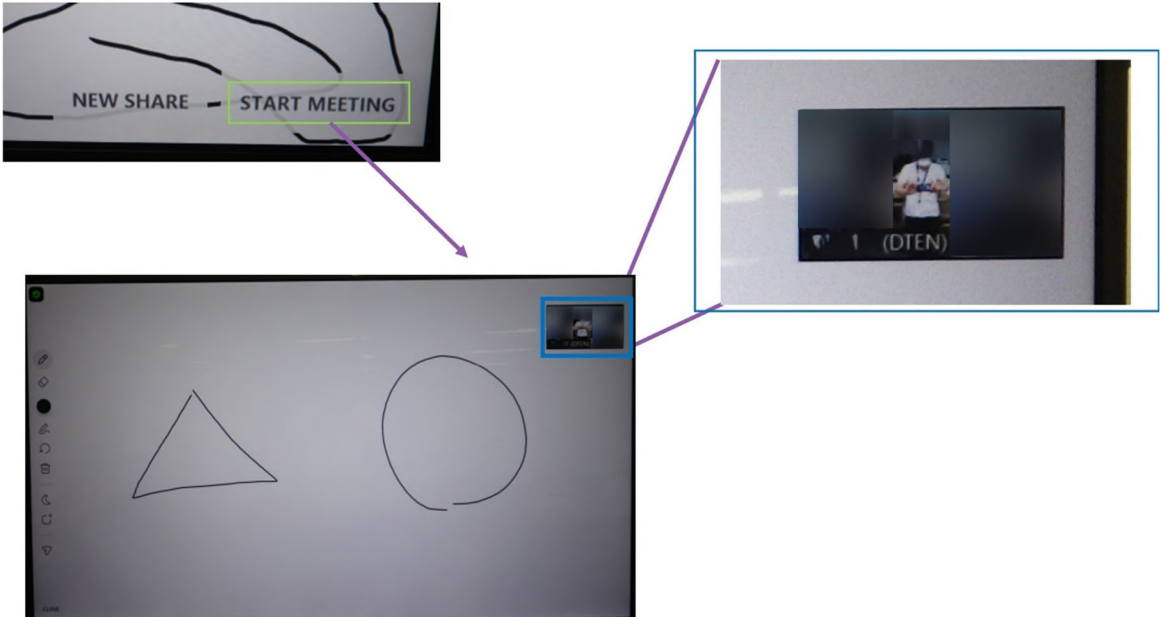
| Claims of US Patent No. 10,904,487 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <div>  <div>55" DTEN D7</div> </div> <div> <div>SPECIFICATIONS</div> <div> All-in-One Video Conferencing for Face to Face Meeting Experience  </div> </div> <div> <div>  </div> <div>  </div> </div> <div>  <div>*D7 in this image is not in 1:1 ratio</div> </div> <div> <a href="https://help.dten.com/hc/en-us/article_attachments/900000230303">https://help.dten.com/hc/en-us/article_attachments/900000230303</a> (accessed on July 9, 2025). </div> <div> DTEN D7 is equipped with an LED 4K capacitive touch screen display. The touch screen display is integral to the device's function as an interactive whiteboard, providing the visual and interactive interface between Zoom and end users. </div> |
| 1[b] a network interface;          | A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes a network interface. <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Claims of US Patent No. 10,904,487 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                                                                                                                                              |                    |                                                                                                   |          |                                  |       |                                                          |               |                                                                                        |                    |                                                |         |                                                |                |                 |               |                                                                                                                               |                    |                                       |              |                                                                                                                                                                                                         |                |               |         |                                                                                                                                                                  |                                    |                                                                                                                                              |  |  |                  |                                                                              |  |  |                    |                    |  |  |                          |                                                           |
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|                                    | <table><tr><td>PRODUCT</td><td>D7 55"</td><td>INPUTS AND OUTPUTS</td><td>HDMI Out x 1<br/>USB 3.0 x 1<br/>3.5-mm Audio Jack x 1<br/>Microphone x 1<br/>Ethernet LAN (RJ45) x 1</td></tr><tr><td>SOFTWARE</td><td>DTEN D7 OS, provisioned by D7 OS</td><td>POWER</td><td>Auto-Sensing Power Supply<br/>100 to 240 VAC, 50 to 60 Hz</td></tr><tr><td>ALL-IN-ONE D7</td><td>LED 55" Multi-Touch Display<br/>4K Camera<br/>16-Microphone Array<br/>Integrated Speakers</td><td>PRODUCT DIMENSIONS</td><td>49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)</td></tr><tr><td>DISPLAY</td><td>LED 75" , 4K , 16:9<br/>Capacitive Touch Screen</td><td>PRODUCT WEIGHT</td><td>50.7 lb (23 kg)</td></tr><tr><td>CAMERA SYSTEM</td><td>Fixed Lens, Infinite Focus<br/>F-value: 2.8<br/>4K<br/>Diagonal Field of View (FOV): 86 Degrees<br/>Unit Mounted Tilt: 15 Degrees</td><td>PACKAGE DIMENSIONS</td><td>56 x 36 x 8.5 in (142 x 92 x 21.5 cm)</td></tr><tr><td>AUDIO SYSTEM</td><td>16 Elements Microphone Array<br/>Integrated 2-Channel Stereo Speakers<br/>High Quality 20-kHz Audio<br/>Zoom Rooms Acoustic Echo Cancellation<br/>Automatic Gain Control (AGC)<br/>Automatic Noise Reduction</td><td>PACKAGE WEIGHT</td><td>77 lb (35 kg)</td></tr><tr><td>NETWORK</td><td>Ethernet (RJ-45) 100/1000 Mbps<br/>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br/>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br/>HTTP Proxy Support</td><td>OPERATING TEMPERATURE AND HUMIDITY</td><td>Operating Temperature 0°C to 40°C<br/>Storage Temperature -10°C to 60°C<br/>Operating Humidity 20% to 80% RH<br/>Storage Humidity 10% to 60% RH</td></tr><tr><td></td><td></td><td>LANGUAGE SUPPORT</td><td>English<br/>* Additional languages to be supported in future software release</td></tr><tr><td></td><td></td><td>SYSTEM REQUIREMENT</td><td>Zoom Rooms License</td></tr><tr><td></td><td></td><td>APPROVALS AND COMPLIANCE</td><td>FCC, CE, CCC, ROHS, ACMA, CB<br/>PSE, TELEC, BIS (Pending)</td></tr></table> <p><a href="https://help.dten.com/hc/en-us/article_attachments/900000230303">https://help.dten.com/hc/en-us/article_attachments/900000230303</a> (accessed on July 9, 2025).</p> <p>DTEN D7 includes both Ethernet (RJ-45, 100/1000 Mbps) and Wi-Fi (802.11a/b/g/n, 802.11ac) network interfaces. These interfaces enable the device to connect to networks and the internet, supporting both videoconferencing and collaborative whiteboard sessions.</p> | PRODUCT                            | D7 55"                                                                                                                                       | INPUTS AND OUTPUTS | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1 | SOFTWARE | DTEN D7 OS, provisioned by D7 OS | POWER | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz | ALL-IN-ONE D7 | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers | PRODUCT DIMENSIONS | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm) | DISPLAY | LED 75" , 4K , 16:9<br>Capacitive Touch Screen | PRODUCT WEIGHT | 50.7 lb (23 kg) | CAMERA SYSTEM | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees | PACKAGE DIMENSIONS | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm) | AUDIO SYSTEM | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction | PACKAGE WEIGHT | 77 lb (35 kg) | NETWORK | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support | OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH |  |  | LANGUAGE SUPPORT | English<br>* Additional languages to be supported in future software release |  |  | SYSTEM REQUIREMENT | Zoom Rooms License |  |  | APPROVALS AND COMPLIANCE | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending) |
| PRODUCT                            | D7 55"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | INPUTS AND OUTPUTS                 | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1                                            |                    |                                                                                                   |          |                                  |       |                                                          |               |                                                                                        |                    |                                                |         |                                                |                |                 |               |                                                                                                                               |                    |                                       |              |                                                                                                                                                                                                         |                |               |         |                                                                                                                                                                  |                                    |                                                                                                                                              |  |  |                  |                                                                              |  |  |                    |                    |  |  |                          |                                                           |
| SOFTWARE                           | DTEN D7 OS, provisioned by D7 OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | POWER                              | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz                                                                                     |                    |                                                                                                   |          |                                  |       |                                                          |               |                                                                                        |                    |                                                |         |                                                |                |                 |               |                                                                                                                               |                    |                                       |              |                                                                                                                                                                                                         |                |               |         |                                                                                                                                                                  |                                    |                                                                                                                                              |  |  |                  |                                                                              |  |  |                    |                    |  |  |                          |                                                           |
| ALL-IN-ONE D7                      | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PRODUCT DIMENSIONS                 | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)                                                                                               |                    |                                                                                                   |          |                                  |       |                                                          |               |                                                                                        |                    |                                                |         |                                                |                |                 |               |                                                                                                                               |                    |                                       |              |                                                                                                                                                                                                         |                |               |         |                                                                                                                                                                  |                                    |                                                                                                                                              |  |  |                  |                                                                              |  |  |                    |                    |  |  |                          |                                                           |
| DISPLAY                            | LED 75" , 4K , 16:9<br>Capacitive Touch Screen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PRODUCT WEIGHT                     | 50.7 lb (23 kg)                                                                                                                              |                    |                                                                                                   |          |                                  |       |                                                          |               |                                                                                        |                    |                                                |         |                                                |                |                 |               |                                                                                                                               |                    |                                       |              |                                                                                                                                                                                                         |                |               |         |                                                                                                                                                                  |                                    |                                                                                                                                              |  |  |                  |                                                                              |  |  |                    |                    |  |  |                          |                                                           |
| CAMERA SYSTEM                      | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PACKAGE DIMENSIONS                 | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm)                                                                                                        |                    |                                                                                                   |          |                                  |       |                                                          |               |                                                                                        |                    |                                                |         |                                                |                |                 |               |                                                                                                                               |                    |                                       |              |                                                                                                                                                                                                         |                |               |         |                                                                                                                                                                  |                                    |                                                                                                                                              |  |  |                  |                                                                              |  |  |                    |                    |  |  |                          |                                                           |
| AUDIO SYSTEM                       | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PACKAGE WEIGHT                     | 77 lb (35 kg)                                                                                                                                |                    |                                                                                                   |          |                                  |       |                                                          |               |                                                                                        |                    |                                                |         |                                                |                |                 |               |                                                                                                                               |                    |                                       |              |                                                                                                                                                                                                         |                |               |         |                                                                                                                                                                  |                                    |                                                                                                                                              |  |  |                  |                                                                              |  |  |                    |                    |  |  |                          |                                                           |
| NETWORK                            | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH |                    |                                                                                                   |          |                                  |       |                                                          |               |                                                                                        |                    |                                                |         |                                                |                |                 |               |                                                                                                                               |                    |                                       |              |                                                                                                                                                                                                         |                |               |         |                                                                                                                                                                  |                                    |                                                                                                                                              |  |  |                  |                                                                              |  |  |                    |                    |  |  |                          |                                                           |
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LANGUAGE SUPPORT                   | English<br>* Additional languages to be supported in future software release                                                                 |                    |                                                                                                   |          |                                  |       |                                                          |               |                                                                                        |                    |                                                |         |                                                |                |                 |               |                                                                                                                               |                    |                                       |              |                                                                                                                                                                                                         |                |               |         |                                                                                                                                                                  |                                    |                                                                                                                                              |  |  |                  |                                                                              |  |  |                    |                    |  |  |                          |                                                           |
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SYSTEM REQUIREMENT                 | Zoom Rooms License                                                                                                                           |                    |                                                                                                   |          |                                  |       |                                                          |               |                                                                                        |                    |                                                |         |                                                |                |                 |               |                                                                                                                               |                    |                                       |              |                                                                                                                                                                                                         |                |               |         |                                                                                                                                                                  |                                    |                                                                                                                                              |  |  |                  |                                                                              |  |  |                    |                    |  |  |                          |                                                           |
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | APPROVALS AND COMPLIANCE           | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending)                                                                                    |                    |                                                                                                   |          |                                  |       |                                                          |               |                                                                                        |                    |                                                |         |                                                |                |                 |               |                                                                                                                               |                    |                                       |              |                                                                                                                                                                                                         |                |               |         |                                                                                                                                                                  |                                    |                                                                                                                                              |  |  |                  |                                                                              |  |  |                    |                    |  |  |                          |                                                           |
| 1[c] one or more processors; and   | <p>A Zoom user’s device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes one or more processors.</p> <p>DTEN D7 operates on Windows IoT, which requires a processor to execute its operating system and application software.</p> <p><a href="https://help.dten.com/hc/en-us/articles/360019135353-DTEN-D7-55-Windows-FAQ">https://help.dten.com/hc/en-us/articles/360019135353-DTEN-D7-55-Windows-FAQ</a> (accessed on July 9, 2025).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |                                                                                                                                              |                    |                                                                                                   |          |                                  |       |                                                          |               |                                                                                        |                    |                                                |         |                                                |                |                 |               |                                                                                                                               |                    |                                       |              |                                                                                                                                                                                                         |                |               |         |                                                                                                                                                                  |                                    |                                                                                                                                              |  |  |                  |                                                                              |  |  |                    |                    |  |  |                          |                                                           |

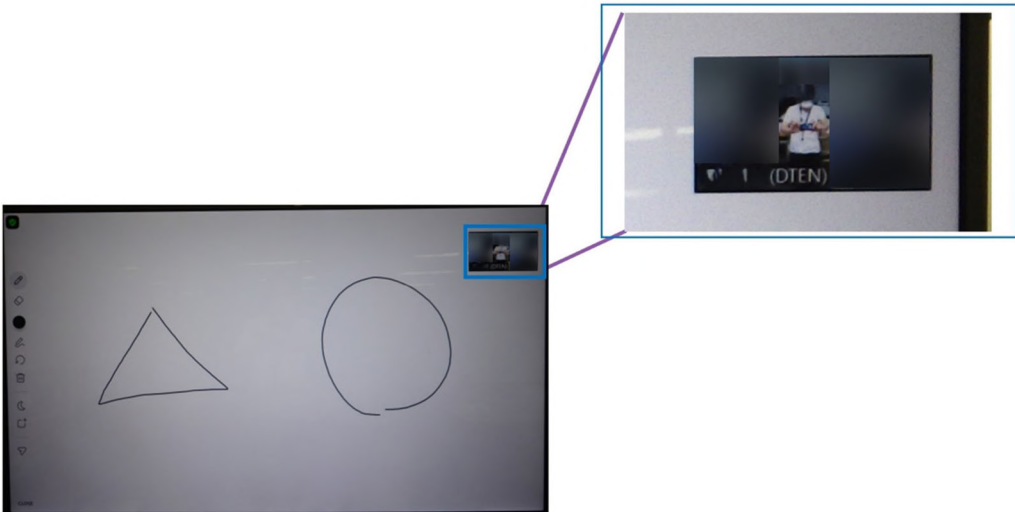
| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                                                                                | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                   | <p>As another non-limiting example, DTEN D7X is available in 55” and 75”, with Windows or Android OS, which requires a processor to execute its operating system and application software.</p> <p><a href="https://www.dten.com/products/d7x/">https://www.dten.com/products/d7x/</a> (accessed on June 22, 2026).</p>                                                                                                                                                                                                                                                                               |
| <p>1[d] one or more memories communicatively coupled to the one or more processors, the one or more memories storing instructions which, when processed by the one or more processors; cause:</p>                                                                                                                 | <p>A Zoom user’s device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes one or more memories communicatively coupled to the one or more processors, where the one or more memories store instructions.</p> <p>For example, on information and belief, DTEN D7, running Windows IoT and pre-installed Zoom Meetings, necessarily includes one or more memory components that are communicatively coupled to the one or more processors. These memory components store the instructions and data required for its operation.</p> |
| <p>1[e] an interactive whiteboard session window, including at least an interactive whiteboard session content area, to be displayed on the display, wherein a selection menu to receive an instruction for starting a video conference session is overlaid on the interactive whiteboard session window; and</p> | <p>The Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7 has an interactive whiteboard session window, including at least an interactive whiteboard session content area, to be displayed on the display, and a selection menu to receive an instruction for starting a video conference session is overlaid on the interactive whiteboard session window.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                       |



After power-on, DTEN D7 displays a screen that allows the user to select the “Whiteboard” icon. Selecting the “Whiteboard” icon opens an interactive whiteboard session window, which includes at least an interactive whiteboard session content area on the display. A selection menu is overlaid on the

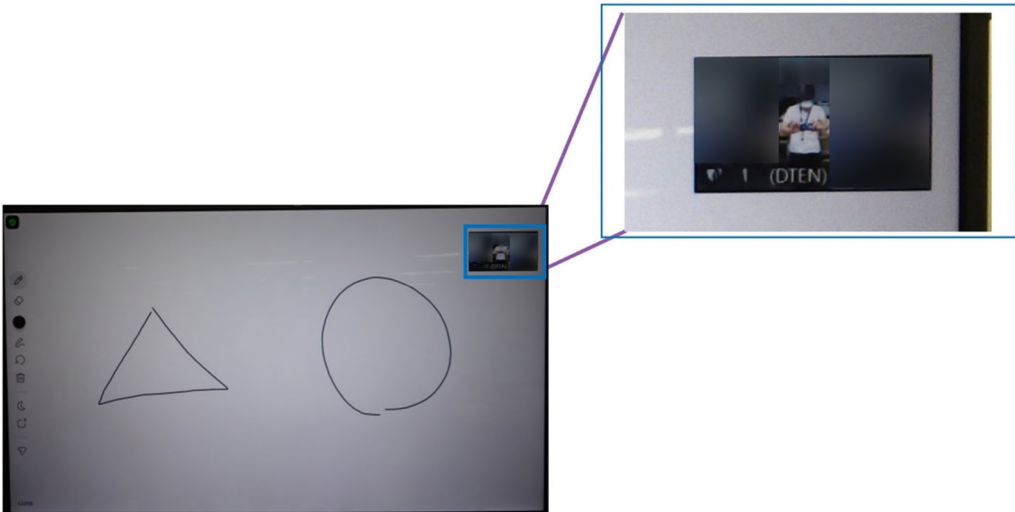
| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                        | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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|                                                                                                                                                                                                                                                           | <p>interactive whiteboard session window. This selection menu includes a "START MEETING" option, which allows the user to initiate a video conference session using Zoom.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>1[f] after receiving the instruction for starting the video conference session via the selection menu overlaid on the interactive whiteboard session window, a videoconference window to be overlaid on the interactive whiteboard session window.</p> | <p>The Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, after receiving the instruction for starting the video conference session via the selection menu overlaid on the interactive whiteboard session window, has a videoconference window to be overlaid on the interactive whiteboard session window.</p> <p>A non-limiting example is shown below:</p> <p>After the user selects "START MEETING" from the overlaid selection menu, a video conference session is started. A videoconference window is then overlaid on the interactive whiteboard session window. The whiteboard session window and its content area remain present and active in the background layer of the display, while the videoconference window occupies the foreground overlay layer.</p>  |

| Claims of US Patent No. 10,904,487                                                                                                                                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                                                                                                                                                                          | <p>On information and belief, for induced infringement, Zoom intends to cause, and has taken affirmative steps to induce infringement by its distributors, importers, customers, subsidiaries, and/or consumers by at least, inter alia, creating advertisements that promote the infringing use of the Accused Instrumentality, creating and/or maintaining established distribution channels for the Accused Instrumentality into and within the United States, manufacturing the Accused Instrumentality in conformity with U.S. laws and regulations, distributing or making available instructions or manuals for these products to purchasers and prospective buyers, and testing the Accused Instrumentality, and/or providing technical support, replacement, or services for these products to these purchasers in the United States. For example, Zoom advertises and provides technical support to its customers using the Accused Instrumentality at Zoom.com and Support.Zoom.com. See, e.g., <a href="https://www.zoom.com/en/products">https://www.zoom.com/en/products</a>; <a href="https://zoom.us/download">https://zoom.us/download</a>; <a href="https://support.zoom.com/hc/en">https://support.zoom.com/hc/en</a>; and <a href="https://www.zoom.com/en/products/online-whiteboard/">https://www.zoom.com/en/products/online-whiteboard/</a></p>                                                                                                                                               |
| <p>2. The whiteboard device of claim 1, wherein the videoconference window displays at least content from a device of a participant of the video conference session.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the whiteboard of claim 1, where the videoconference window displays at least content from a device of a participant of the video conference session.</p> <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, has the videoconference window that displays contents including participant's video feeds, video tiles, video thumbnails, or analogous visual representations of participant video streams from a participating transmission terminal of the video conference session.</p> <p>As shown in the screenshot below, the main display area of the DTEN D7 device shows the interactive whiteboard session window — a whiteboard canvas serving as the background layer, on which user-generated whiteboard content (including hand-drawn shapes such as a triangle and a circle) is visible, alongside a vertical toolbar of collaboration tools along the left edge of the canvas. A separate, smaller videoconference window highlighted in a blue box is displayed in the upper-right portion of the main display area and overlaid upon the underlying interactive whiteboard session window.</p> <p>The content (e.g., a participant's video feeds) from a device of a participant being displayed in the videoconference window can be easily seen from an enlarged view of the videoconference window.</p> |

| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                                                                                                                                 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <p>3. The whiteboard device of claim 1, wherein processing of the instructions further causes:</p> <p>after the videoconference window being overlaid on the interactive whiteboard session window, display a second selection menu to receive an instruction for stopping the video conference session overlaid on the interactive whiteboard session window.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the whiteboard of claim 1, where processing of the instructions further causes, after the videoconference window being overlaid on the interactive whiteboard session window, display a second selection menu to receive an instruction for stopping the video conference session overlaid on the interactive whiteboard session window.</p> <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, is capable of further causing, after the videoconference window being overlaid on the interactive whiteboard session window, to display a second selection menu to receive an instruction for stopping the video conference session overlaid on the interactive whiteboard session window.</p> <p>As shown in the screenshot below, an active interactive whiteboard session window is displayed, featuring a drawing canvas with user-drawn shapes —a triangle on the left and a circle on the right — and a drawing tool palette running along the left edge of the screen.</p> |

| Claims of US Patent No. 10,904,487 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                                    | <p>Overlaid in the upper-right corner of the interactive whiteboard session window is a videoconference window displaying a videoconference participant, confirming that the videoconference window has been overlaid on the interactive whiteboard session window.</p> <p>After the videoconference window is overlaid on the interactive whiteboard session window, a second selection menu — in the form of a videoconference control bar — is displayed in the lower portion of the interactive whiteboard session window.</p> <div> </div> <p>As shown above in the enlarged view of the second selection menu, the second selection menu presents the user with multiple selectable controls, including "Mute," "Stop Video," "Share Screen," "View," "More," and a prominently displayed "End" button highlighted in the yellow box.</p> |

| Claims of US Patent No. 10,904,487                                                                                                                                             | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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|                                                                                                                                                                                | <p>The user can provide an instruction to stop the video conference session that is overlaid on the interactive whiteboard session window through the "End" button of the second selection menu.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>4. The whiteboard device of claim 1, wherein the videoconferencing window is maintained on top of the interactive whiteboard window during a videoconferencing session.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the whiteboard of claim 1, where the videoconferencing window is maintained on top of the interactive whiteboard window during a videoconferencing session.</p> <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, has the videoconference window that is maintained on top of the interactive whiteboard window during a videoconferencing session.</p> <p>As shown in the screenshot below, the main display area of the DTEN D7 device shows the interactive whiteboard session window — a whiteboard canvas serving as the background layer. A separate, smaller videoconference window highlighted in a blue box is displayed in the upper-right portion of the main display area and overlaid on top of the underlying interactive whiteboard session window during a video conference.</p> |

| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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|                                                                                                                                                                                                                                                          |  <p>The screenshot shows a Zoom whiteboard interface. The main area is a light gray whiteboard with a toolbar on the left containing various drawing tools. Two hand-drawn shapes, a triangle and a circle, are visible on the whiteboard. In the upper-right corner, a small video window is overlaid, showing a person in a white shirt. A blue rectangular box highlights the video window, and a purple line connects it to a larger, magnified inset of the video window on the right side of the table cell. The inset shows the video window more clearly, with the name '(DTEN)' visible at the bottom.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>5. The whiteboard device of claim 1, wherein processing of the instructions further causes the interactive whiteboard session window to be moved on top of the videoconference window in response to termination of the video conference session.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the whiteboard of claim 1, where processing of the instructions further causes the interactive whiteboard session window to be moved on top of the videoconference window in response to termination of the video conference session.</p> <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, is capable of further causing the interactive whiteboard session window to be moved on top of the videoconference window in response to termination of the video conference session.</p> <p>As shown in the screenshot below, it depicts an active interactive whiteboard session window overlaid by a videoconference window in the upper-right corner of the interactive whiteboard session window.</p> <p>A videoconference control bar is displayed in the lower portion of the interactive whiteboard session window. The videoconference control bar includes an "End" button (highlighted in a yellow box), which allows a user to terminate the videoconference session.</p> |

| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                                        | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                                                                                                                                                                                                                                                                           |  <p>On information and belief, upon termination of the videoconference session through the “End” button, the interactive whiteboard session window is repositioned to occupy the display area previously occupied by the videoconference window. As a result, the interactive whiteboard session window moves on top of, and overlays the area formerly occupied by the videoconference window.</p> |
| <p>6. The whiteboard device of claim 1, wherein processing of the instructions further causes an interactive whiteboard session to be shared with the one or more client devices that are external to the whiteboard device by invoking</p> | <p>A Zoom user’s device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the whiteboard of claim 1, where processing of the instructions further causes an interactive whiteboard session to be shared with the one or more client devices that are external to the whiteboard device by invoking functionality provided by a collaboration library on the whiteboard device.</p>                                     |

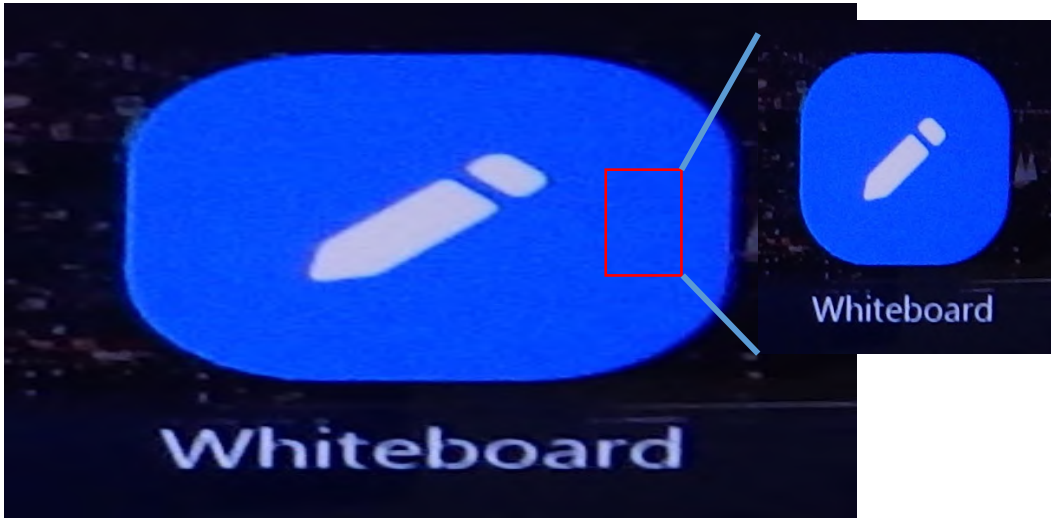
| Claims of US Patent No. 10,904,487                                                 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <p>functionality provided by a collaboration library on the whiteboard device.</p> | <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, is capable of further causing an interactive whiteboard session to be shared with the one or more client devices that are external to the whiteboard device by invoking functionality provided by a collaboration library on the whiteboard device.</p> <p>A non-limiting example is shown below:</p>  <p>After power-on, DTEN D7 displays a screen that allows the user to select the “Whiteboard” icon. Selecting the “Whiteboard” icon opens an interactive whiteboard session window, which includes at least an interactive whiteboard session content area on the display. A selection menu is overlaid on the interactive whiteboard session window. This selection menu includes a "NEW SHARE" option, which</p> |

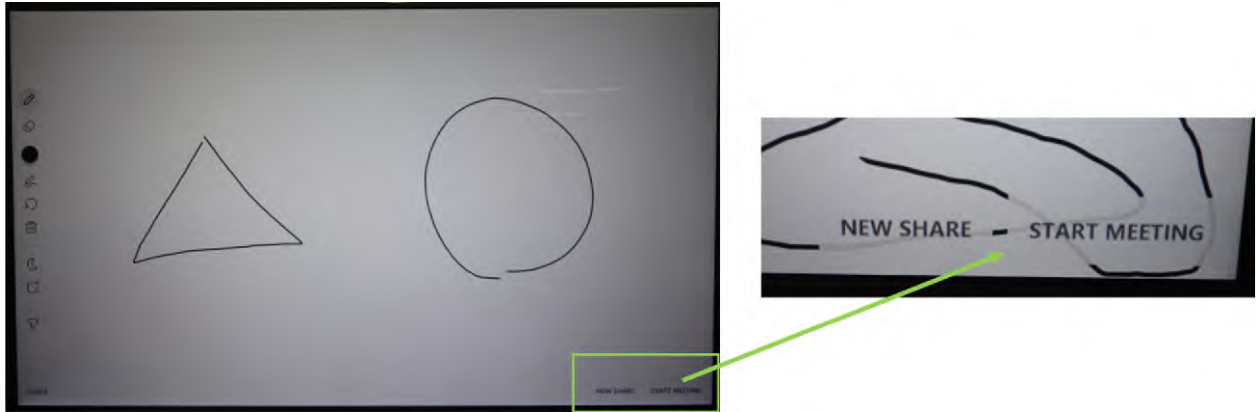
| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                                                                                   | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                                                                                                                                                                                                                                                                                                                      | <p>allows the user to share the interactive whiteboard session with one or more client devices that are external to DTEN D7 and are communicatively coupled with DTEN D7 through a network.</p> <p>On information and belief, the interactive whiteboard session that is shared with one or more client devices invokes functionality provided by a collaboration library, framework, module, or its equivalent. For example, Zoom Rooms, including its associated clients and software components, provides functionality for establishing, maintaining, and/or managing videoconferencing sessions with terminal devices external to the DTEN D7. The interactive whiteboard session utilizes and/or calls upon such collaboration functionality to enable communication and content sharing between the DTEN D7 and the external client devices participating in the session.</p> |
| <p>7. The whiteboard device of claim 1, wherein processing of the instructions further causes the selection menu to be updated in response to detecting a user selection of a particular control on the selection menu for switching between an interactive whiteboard session and the video conference session.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the whiteboard of claim 1, where processing of the instructions further causes the selection menu to be updated in response to detecting a user selection of a particular control on the selection menu for switching between an interactive whiteboard session and the video conference session.</p> <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, is capable of further causing the selection menu to be updated in response to detecting a user selection of a particular control on the selection menu for switching between an interactive whiteboard session and the video conference session.</p> <p>A non-limiting example is shown below:</p>                              |

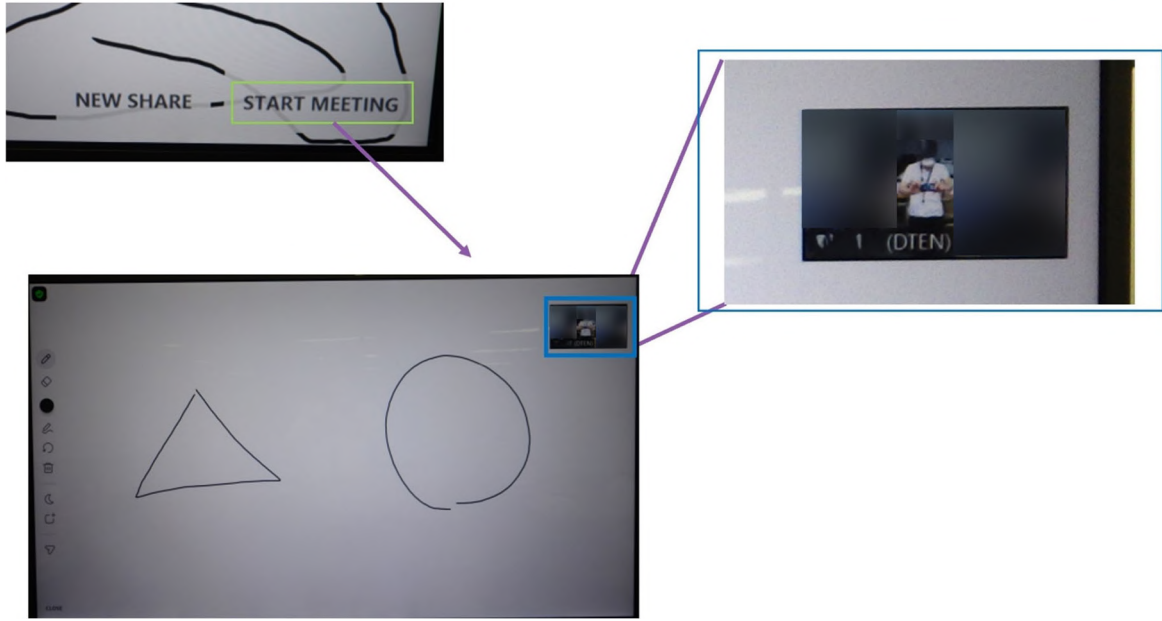


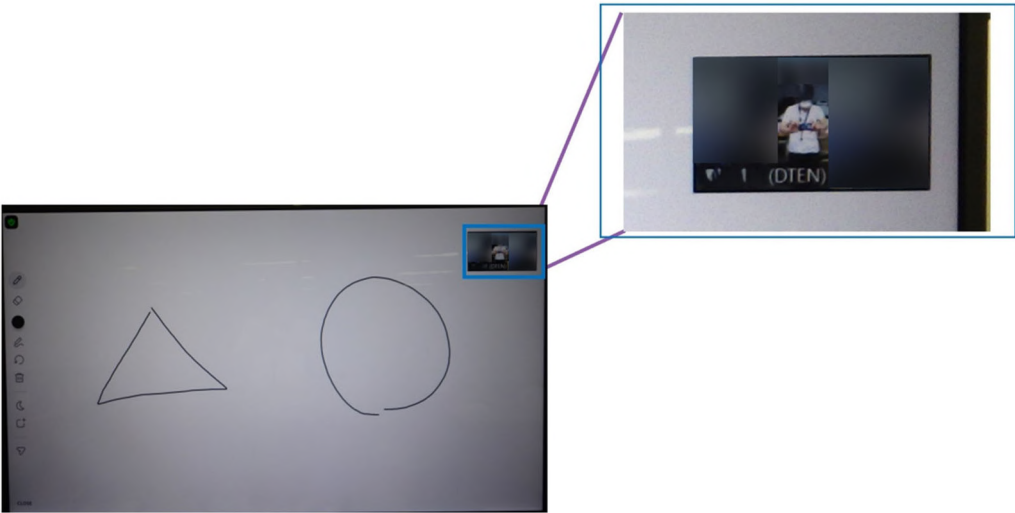
After power-on, DTEN D7 displays a screen that allows the user to select the “Whiteboard” icon. Selecting the “Whiteboard” icon opens an interactive whiteboard session window, which includes at least an interactive whiteboard session content area on the display. A selection menu is overlaid on the interactive whiteboard session window. This selection menu includes a “NEW SHARE” button for sharing the interactive whiteboard session with one or more client devices and a “START MEETING” button for initiating a video conference session. A user can select either the “NEW SHARE” button or the “START MEETING” button in the selection menu for switching between an interactive whiteboard session and the video conference session.

On information and belief, the selection menu is updated in response to detecting a user input on at least one of the “NEW SHARE” and “START MEETING” buttons.

| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                                                                                                     | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <p>8[pre] One or more non-transitory computer-readable media storing instructions which, when processed by one or more processors, cause:</p>                                                                                                                                                                                          | <p>To the extent the preamble is limiting, the Accused Instrumentality includes one or more non-transitory computer-readable media storing instructions, which can be processed by one or more processors.</p> <p>For example, the Accused Instrumentality can be downloaded or installed on any third-party computing devices or a user's device and processed by one or more processors.</p>                                                                                            |
| <p>8[a] an interactive whiteboard session window, including at least an interactive whiteboard session content area, to be displayed on a display of a whiteboard device, wherein a selection menu to receive an instruction for starting a video conference session is overlaid on the interactive whiteboard session window; and</p> | <p>The Accused Instrumentality such as Zoom Rooms has an interactive whiteboard session window, including at least an interactive whiteboard session content area, to be displayed on the display, and a selection menu to receive an instruction for starting a video conference session is overlaid on the interactive whiteboard session window.</p> <p>A non-limiting example is shown below:</p>  |

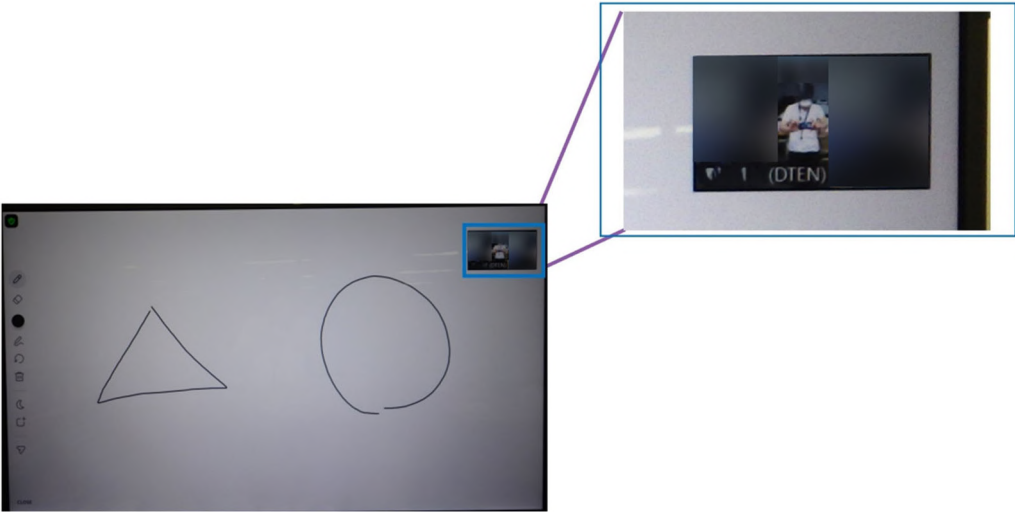
| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                        | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                                                                                                                                                                                                                                                           |  <p>After power-on, DTEN D7 displays a screen that allows the user to select the “Whiteboard” icon. Selecting the “Whiteboard” icon opens an interactive whiteboard session window, which includes at least an interactive whiteboard session content area on the display. A selection menu is overlaid on the interactive whiteboard session window. This selection menu includes a "START MEETING" option, which allows the user to initiate a video conference session using Zoom.</p>                                                                                                                                                                                                                 |
| <p>8[b] after receiving the instruction for starting the video conference session via the selection menu overlaid on the interactive whiteboard session window, a videoconference window to be overlaid on the interactive whiteboard session window.</p> | <p>The Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, after receiving the instruction for starting the video conference session via the selection menu overlaid on the interactive whiteboard session window, has a videoconference window to be overlaid on the interactive whiteboard session window.</p> <p>A non-limiting example is shown below:</p> <p>After the user selects "START MEETING" from the overlaid selection menu, a video conference session is started. A videoconference window is then overlaid on the interactive whiteboard session window. The whiteboard session window and its content area remain present and active in the background layer of the display, while the videoconference window occupies the foreground overlay layer.</p> |

| Claims of US Patent No. 10,904,487                                                                                                                                                                        | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <p>9. The one or more non-transitory computer-readable media of claim 8, wherein the videoconference window displays at least content from a device of a participant of the video conference session.</p> | <p>The Accused Instrumentality includes the one or more non-transitory computer-readable media of claim 8, where the videoconference window displays at least content from a device of a participant of the video conference session.</p> <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, has the videoconference window that displays contents including participant's video feeds, video tiles, video thumbnails, or analogous visual representations of participant video streams from a participating transmission terminal of the video conference session.</p> <p>As shown in the screenshot below, the main display area of the DTEN D7 device shows the interactive whiteboard session window — a whiteboard canvas serving as the background layer, on which user-generated whiteboard content (including hand-drawn shapes such as a triangle and a circle) is visible, alongside a vertical toolbar of collaboration tools along the left edge of the canvas. A separate, smaller</p> |

| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                                                                                                                                          | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|                                                                                                                                                                                                                                                                                                                                                                             | <p>videoconference window highlighted in a blue box is displayed in the upper-right portion of the main display area and overlaid upon the underlying interactive whiteboard session window.</p> <p>The content (e.g., a participant's video feeds) from a device of a participant being displayed in the videoconference window can be easily seen from an enlarged view of the videoconference window.</p>                                                                                                                                                                                                                                                                                                    |
| <p>10. The one or more non-transitory computer-readable media of claim 8, further comprising additional instructions which, when processed by the one or more processors, causes:</p> <p>after the videoconference window being overlaid on the interactive whiteboard session window, display a second selection menu to receive an instruction for stopping the video</p> | <p>The Accused Instrumentality includes the one or more non-transitory computer-readable media of claim 8, further comprising additional instructions which, when processed by the one or more processors, causes after the videoconference window being overlaid on the interactive whiteboard session window, display a second selection menu to receive an instruction for stopping the video conference session overlaid on the interactive whiteboard session window.</p> <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, includes additional instructions which, when processed by the one or more processors, cause: after the videoconference window being overlaid on the interactive whiteboard session window, to display a</p> |

| Claims of US Patent No. 10,904,487                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <p>conference session overlaid on the interactive whiteboard session window.</p> | <p>second selection menu to receive an instruction for stopping the video conference session overlaid on the interactive whiteboard session window.</p> <p>As shown in the screenshot below, an active interactive whiteboard session window is displayed, featuring a drawing canvas with user-drawn shapes —a triangle on the left and a circle on the right — and a drawing tool palette running along the left edge of the screen.</p> <p>Overlaid in the upper-right corner of the interactive whiteboard session window is a videoconference window displaying a videoconference participant, confirming that the videoconference window has been overlaid on the interactive whiteboard session window.</p> <p>After the videoconference window is overlaid on the interactive whiteboard session window, a second selection menu — in the form of a videoconference control bar — is displayed in the lower portion of the interactive whiteboard session window.</p> |

| Claims of US Patent No. 10,904,487                                                                                                      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|                                                                                                                                         |  <p>As shown above in the enlarged view of the second selection menu, the second selection menu presents the user with multiple selectable controls, including "Mute," "Stop Video," "Share Screen," "View," "More," and a prominently displayed "End" button highlighted in the yellow box.</p> <p>The user can provide an instruction to stop the video conference session that is overlaid on the interactive whiteboard session window through the "End" button of the second selection menu.</p> |
| <p>11. The one or more non-transitory computer-readable media of claim 8, wherein the videoconferencing window is maintained on top</p> | <p>The Accused Instrumentality includes the one or more non-transitory computer-readable media of claim 8, where the videoconferencing window is maintained on top of the interactive whiteboard window during a videoconferencing session.</p>                                                                                                                                                                                                                                                                                                                                         |

| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                                                 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <p>of the interactive whiteboard window during a videoconferencing session.</p>                                                                                                                                                                                                    | <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, has the videoconference window that is maintained on top of the interactive whiteboard window during a videoconferencing session.</p> <p>As shown in the screenshot below, the main display area of the DTEN D7 device shows the interactive whiteboard session window — a whiteboard canvas serving as the background layer. A separate, smaller videoconference window highlighted in a blue box is displayed in the upper-right portion of the main display area and overlaid on top of the underlying interactive whiteboard session window during a video conference.</p>  |
| <p>12. The one or more non-transitory computer-readable media of claim 8, further comprising additional instructions which, when processed by the one or more processors, causes the interactive whiteboard session window to be moved on top of the videoconference window in</p> | <p>The Accused Instrumentality includes the one or more non-transitory computer-readable media of claim 8, further comprising additional instructions which, when processed by the one or more processors, causes the interactive whiteboard session window to be moved on top of the videoconference window in response to termination of the video conference session.</p>                                                                                                                                                                                                                                                                                                                                                                                              |

| Claims of US Patent No. 10,904,487                              | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <p>response to termination of the video conference session.</p> | <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, is capable of further causing the interactive whiteboard session window to be moved on top of the videoconference window in response to termination of the video conference session.</p> <p>As shown in the screenshot below, it depicts an active interactive whiteboard session window overlaid by a videoconference window in the upper-right corner of the interactive whiteboard session window.</p> <p>A videoconference control bar is displayed in the lower portion of the interactive whiteboard session window. The videoconference control bar includes an “End” button (highlighted in a yellow box), which allows a user to terminate the videoconference session.</p> <div> <p>The image is a screenshot of a Zoom interactive whiteboard session. The main whiteboard area is light gray and contains two hand-drawn shapes: a triangle on the left and a circle on the right. On the left side of the whiteboard, there is a vertical toolbar with various drawing tools. In the top right corner of the whiteboard, there is a small video thumbnail of a person. Overlaid on the bottom of the whiteboard is a dark gray control bar. This bar contains several icons and labels: a microphone icon labeled 'Mute', a video camera icon labeled 'Stop Video', a green square with an upward arrow labeled 'Share Screen', a person icon labeled 'View', a three-dot menu icon labeled 'More', and a red button with the word 'End' in white text. The 'End' button is highlighted with a yellow rectangular box. Dashed lines connect the corners of the control bar in the screenshot to a larger, more detailed view of the control bar shown below it.</p> </div> |

| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                                                                                                                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                                                                                                                                                                                                                                                                                                                                                                                                            | <p>On information and belief, upon termination of the videoconference session through the “End” button, the interactive whiteboard session window is repositioned to occupy the display area previously occupied by the videoconference window. As a result, the interactive whiteboard session window moves on top of, and overlays the area formerly occupied by the videoconference window.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>13. The one or more non-transitory computer-readable media of claim 8, further comprising additional instructions which, when processed by the one or more processors, causes an interactive whiteboard session to be shared with the one or more client devices that are external to the whiteboard device by invoking functionality provided by a collaboration library on the whiteboard device.</p> | <p>The Accused Instrumentality includes the one or more non-transitory computer-readable media of claim 8, further comprising additional instructions which, when processed by the one or more processors, causes an interactive whiteboard session to be shared with the one or more client devices that are external to the whiteboard device by invoking functionality provided by a collaboration library on the whiteboard device.</p> <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, is capable of further causing an interactive whiteboard session to be shared with the one or more client devices that are external to the whiteboard device by invoking functionality provided by a collaboration library on the whiteboard device.</p> <p>A non-limiting example is shown below:</p> |



After power-on, DTEN D7 displays a screen that allows the user to select the “Whiteboard” icon. Selecting the “Whiteboard” icon opens an interactive whiteboard session window, which includes at least an interactive whiteboard session content area on the display. A selection menu is overlaid on the interactive whiteboard session window. This selection menu includes a “NEW SHARE” option, which allows the user to share the interactive whiteboard session with one or more client devices that are external to DTEN D7 and are communicatively coupled with DTEN D7 through a network.

On information and belief, the interactive whiteboard session that is shared with one or more client devices invokes functionality provided by a collaboration library, framework, module, or its equivalent. For example, Zoom Rooms, including its associated clients and software components, provides functionality for establishing, maintaining, and/or managing videoconferencing sessions with terminal devices external to the DTEN D7. The interactive whiteboard session utilizes and/or calls upon such

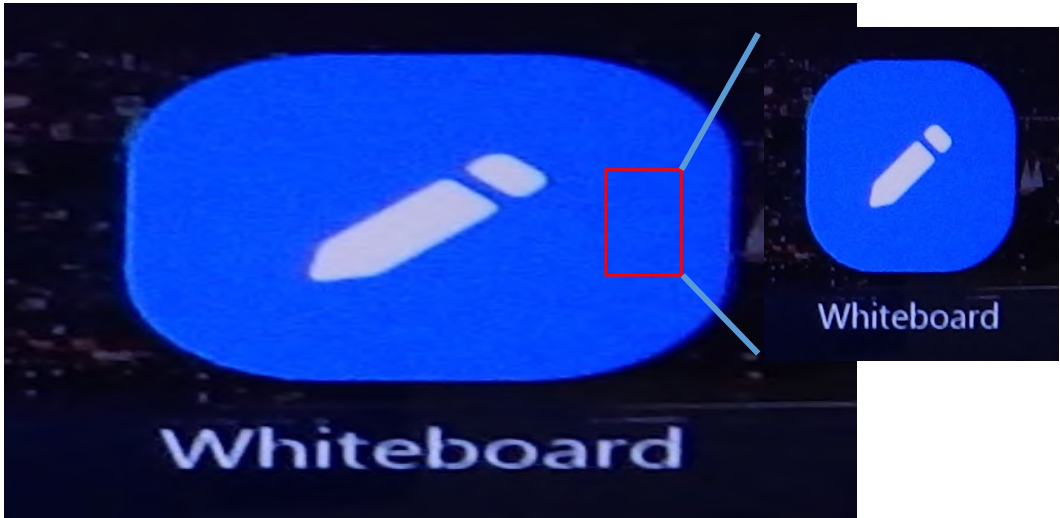
| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                                                                                                                                                                        | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                                                                                                                                                                                                                                                                                                                                                                                                           | <p>collaboration functionality to enable communication and content sharing between the DTEN D7 and the external client devices participating in the session.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>14. The one or more non-transitory computer-readable media [of] claim 8, further comprising additional instructions which, when processed by the one or more processors, causes the selection menu to be updated in response to detecting a user selection of a particular control on the selection menu for switching between an interactive whiteboard session and the video conference session.</p> | <p>The Accused Instrumentality includes the one or more non-transitory computer-readable media of claim 8, further comprising additional instructions which, when processed by the one or more processors, causes the selection menu to be updated in response to detecting a user selection of a particular control on the selection menu for switching between an interactive whiteboard session and the video conference session.</p> <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, is capable of further causing the selection menu to be updated in response to detecting a user selection of a particular control on the selection menu for switching between an interactive whiteboard session and the video conference session.</p> <p>A non-limiting example is shown below:</p> |

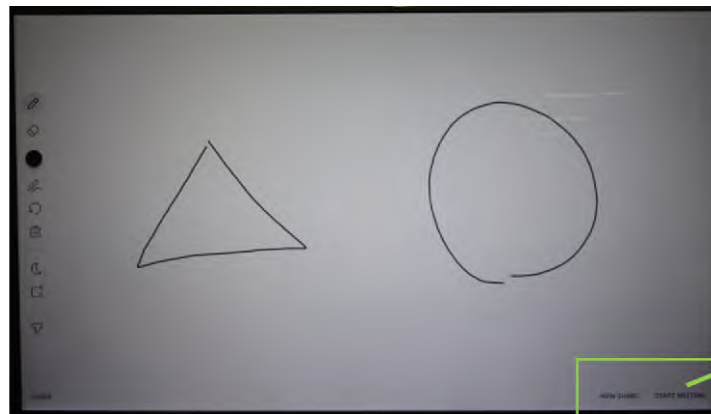
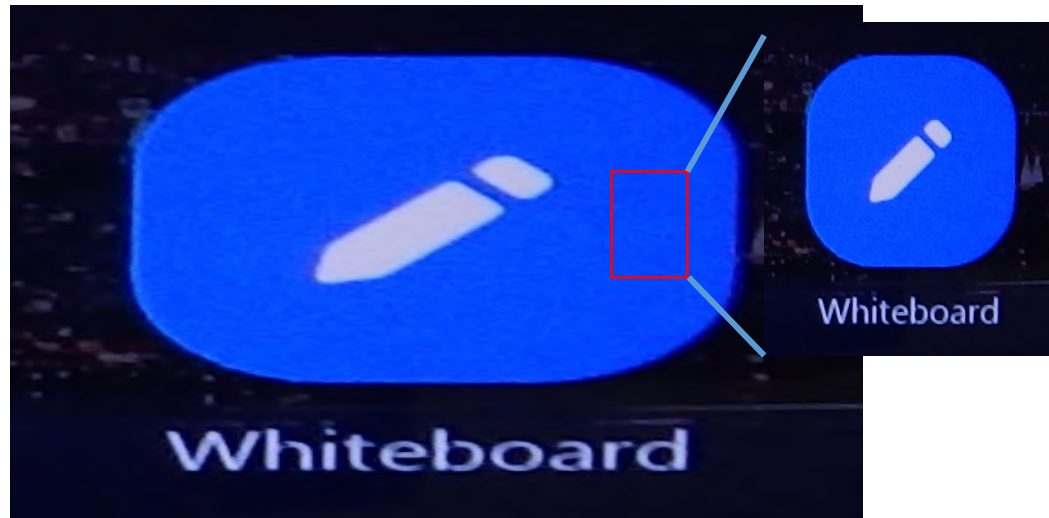


After power-on, DTEN D7 displays a screen that allows the user to select the “Whiteboard” icon. Selecting the “Whiteboard” icon opens an interactive whiteboard session window, which includes at least an interactive whiteboard session content area on the display. A selection menu is overlaid on the interactive whiteboard session window. This selection menu includes a “NEW SHARE” button for sharing the interactive whiteboard session with one or more client devices and a “START MEETING” button for initiating a video conference session. A user can select either the “NEW SHARE” button or the “START MEETING” button in the selection menu for switching between an interactive whiteboard session and the video conference session.

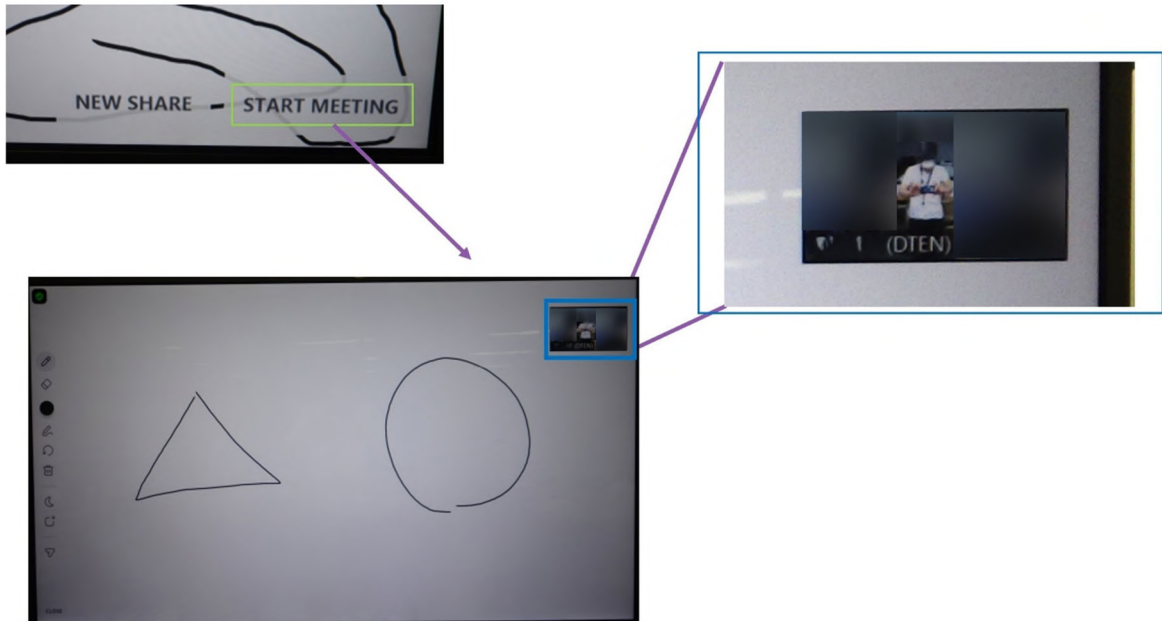
On information and belief, the selection menu is updated in response to detecting a user input on at least one of the “NEW SHARE” and “START MEETING” buttons.

| Claims of US Patent No. 10,904,487                        | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <p>15[pre]. A computer-implemented method comprising:</p> | <p>To the extent the preamble is limiting, the Accused Instrumentality performs a computer-implemented method.</p> <p>On information and belief, Zoom offers cloud-based communication and collaboration products and services, including video conferencing, whiteboards, and messaging systems, operating through a platform called "Zoom Workplace," which encompasses a range of integrated products and features, including but not limited to Zoom Meetings, Zoom Rooms, Zoom Sessions, Zoom Webinar, and Zoom Whiteboard.</p> <p>The Zoom Rooms software is installed and implemented on a user device including computers, laptops, and mobile devices or pre-installed by customers and manufacturers, such as DTEN, Inc. By way of a non-limiting example, the Zoom Rooms software is implemented on and pre-installed on the DTEN D7 — a purpose-built, all-in-one touchscreen video conferencing and collaboration device — and executes a suite of computer-implemented instructions that orchestrate both interactive whiteboard functionality and video conferencing functionality in an integrated manner. Zoom also offers the Zoom Rooms application for download to use in conference rooms and touchscreen displays.</p> <p>As shown below, the screenshot depicts the DTEN D7 home screen, a touchscreen display executing the Zoom Rooms software. The user interface includes labeled navigation icons for “New Meeting,” “Join,” “Whiteboard,” “Share Screen,” and “Contacts,” with the Zoom logo prominently displayed at the bottom center of the screen. The home screen serves as the user-facing interface generated and rendered by Zoom's software executing on the DTEN D7’s integrated videoconferencing device.</p> |

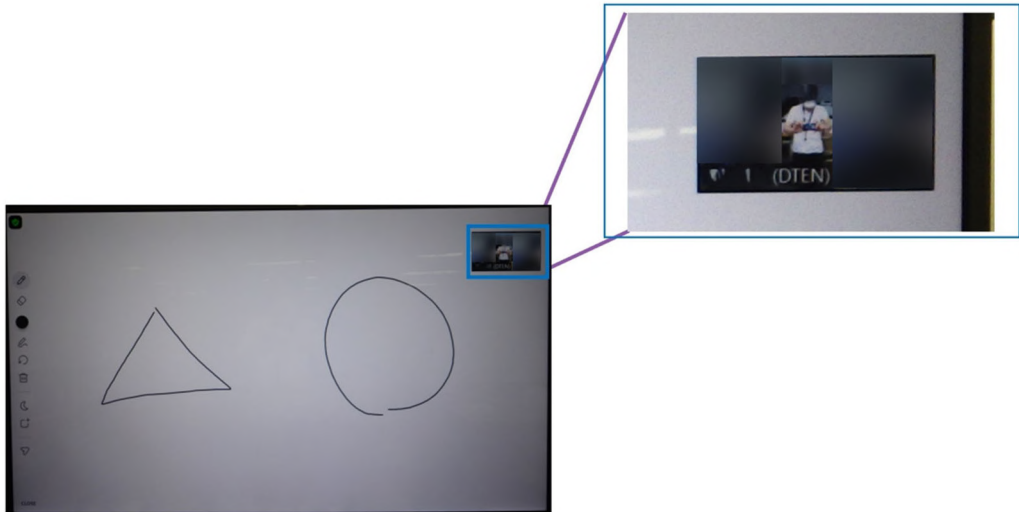
| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                                                                                                      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                   |
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|                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                         |
| <p>15[a] an interactive whiteboard session window, including at least an interactive whiteboard session content area, to be displayed on a display of a whiteboard device, wherein a selection menu to receive an instruction for starting a video conference session is overlaid on the interactive whiteboard session window; and</p> | <p>The Accused Instrumentality has an interactive whiteboard session window, including at least an interactive whiteboard session content area, to be displayed on a display of a whiteboard device, where a selection menu to receive an instruction for starting a video conference session is overlaid on the interactive whiteboard session window.</p> <p>A non-limiting example is shown below:</p> |



After power-on, DTEN D7 displays a screen that allows the user to select the “Whiteboard” icon. Selecting the “Whiteboard” icon opens an interactive whiteboard session window, which includes at least an interactive whiteboard session content area on the display. A selection menu is overlaid on the

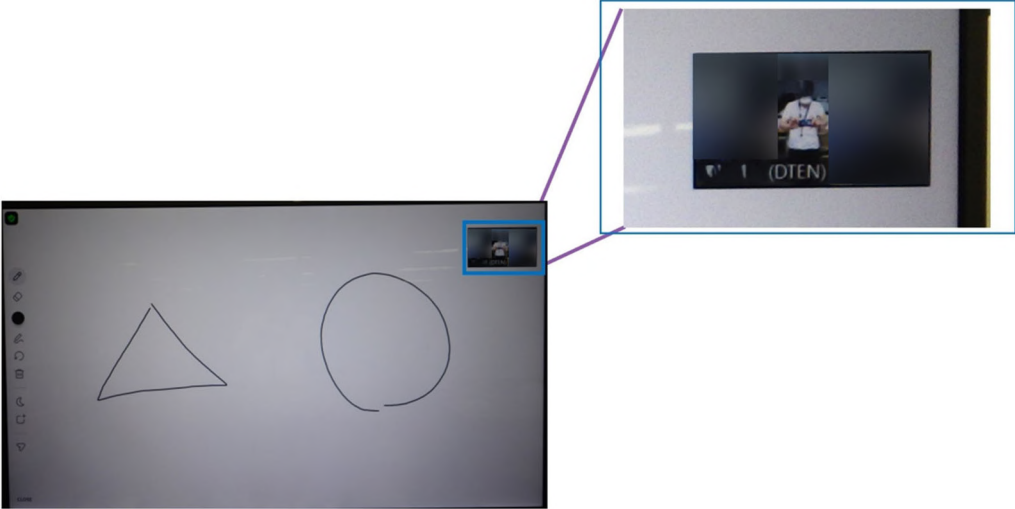
| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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|                                                                                                                                                                                                                                                            | <p>interactive whiteboard session window. This selection menu includes a "START MEETING" option, which allows the user to initiate a video conference session using Zoom.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>15[b] after receiving the instruction for starting the video conference session via the selection menu overlaid on the interactive whiteboard session window, a videoconference window to be overlaid on the interactive whiteboard session window.</p> | <p>The Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, after receiving the instruction for starting the video conference session via the selection menu overlaid on the interactive whiteboard session window, has a videoconference window to be overlaid on the interactive whiteboard session window.</p> <p>A non-limiting example is shown below:</p> <p>After the user selects "START MEETING" from the overlaid selection menu, a video conference session is started. A videoconference window is then overlaid on the interactive whiteboard session window. The whiteboard session window and its content area remain present and active in the background layer of the display, while the videoconference window occupies the foreground overlay layer.</p>  |

| Claims of US Patent No. 10,904,487                                                                                                                                                   | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <p>16. The computer-implemented method of claim 15, wherein the videoconference window displays at least content from a device of a participant of the video conference session.</p> | <p>The Accused Instrumentality performs the computer-implemented method of claim 15, where the videoconference window displays at least content from a device of a participant of the video conference session.</p> <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, has the videoconference window that displays contents including participant's video feeds, video tiles, video thumbnails, or analogous visual representations of participant video streams from a participating transmission terminal of the video conference session.</p> <p>As shown in the screenshot below, the main display area of the DTEN D7 device shows the interactive whiteboard session window — a whiteboard canvas serving as the background layer, on which user-generated whiteboard content (including hand-drawn shapes such as a triangle and a circle) is visible, alongside a vertical toolbar of collaboration tools along the left edge of the canvas. A separate, smaller videoconference window highlighted in a blue box is displayed in the upper-right portion of the main display area and overlaid upon the underlying interactive whiteboard session window.</p> <p>The content (e.g., a participant's video feeds) from a device of a participant being displayed in the videoconference window can be easily seen from an enlarged view of the videoconference window.</p> |

| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                                                                                                          | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <p>17. The computer-implemented method of claim 15, further comprising:</p> <p>after the videoconference window being overlaid on the interactive whiteboard session window, display a second selection menu to receive an instruction for stopping the video conference session overlaid on the interactive whiteboard session window.</p> | <p>The Accused Instrumentality performs the computer-implemented method of claim 15, further comprising: after the videoconference window being overlaid on the interactive whiteboard session window, display a second selection menu to receive an instruction for stopping the video conference session overlaid on the interactive whiteboard session window.</p> <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7 performs the method of claim 15, further including, after the videoconference window being overlaid on the interactive whiteboard session window, display a second selection menu to receive an instruction for stopping the video conference session overlaid on the interactive whiteboard session window.</p> <p>As shown in the screenshot below, an active interactive whiteboard session window is displayed, featuring a drawing canvas with user-drawn shapes —a triangle on the left and a circle on the right — and a drawing tool palette running along the left edge of the screen.</p> |

| Claims of US Patent No. 10,904,487 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                                    | <p>Overlaid in the upper-right corner of the interactive whiteboard session window is a videoconference window displaying a videoconference participant, confirming that the videoconference window has been overlaid on the interactive whiteboard session window.</p> <p>After the videoconference window is overlaid on the interactive whiteboard session window, a second selection menu — in the form of a videoconference control bar — is displayed in the lower portion of the interactive whiteboard session window.</p> <div> <p>The image shows a screenshot of a videoconference interface. At the top, there is a whiteboard area with a triangle and a circle drawn on it. In the upper right corner of the whiteboard, there is a small video window showing a participant. Below the whiteboard, there is a control bar with several icons: a microphone for 'Mute', a video camera for 'Stop Video', a green square with an upward arrow for 'Share Screen', a person icon for 'View', a three-dot menu for 'More', and a large red button with the word 'End' in white. The 'End' button is highlighted with a yellow rectangular box. Dashed lines connect the 'End' button to a larger, enlarged view of the control bar below it.</p> </div> <p>As shown above in the enlarged view of the second selection menu, the second selection menu provides the user with multiple selectable controls, including "Mute," "Stop Video," "Share Screen," "View," "More," and a prominently displayed "End" button highlighted in the yellow box.</p> |

| Claims of US Patent No. 10,904,487                                                                                                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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|                                                                                                                                                                                            | <p>The user can provide an instruction to stop the video conference session that is overlaid on the interactive whiteboard session window through the "End" button of the second selection menu.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>18. The computer-implemented method of claim 15, wherein the videoconferencing window is maintained on top of the interactive whiteboard window during a videoconferencing session.</p> | <p>The Accused Instrumentality performs the computer-implemented method of claim 15, where the videoconferencing window is maintained on top of the interactive whiteboard window during a videoconferencing session.</p> <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, has the videoconference window that is maintained on top of the interactive whiteboard window during a videoconferencing session.</p> <p>As shown in the screenshot below, the main display area of the DTEN D7 device shows the interactive whiteboard session window — a whiteboard canvas serving as the background layer. A separate, smaller videoconference window highlighted in a blue box is displayed in the upper-right portion of the main display area and overlaid on top of the underlying interactive whiteboard session window during a video conference.</p> |

| Claims of US Patent No. 10,904,487                                                                                                                                                                                                        | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <p>19. The computer-implemented method of claim 15, further comprising causing the interactive whiteboard session window to be moved on top of the videoconference window in response to termination of the video conference session.</p> | <p>The Accused Instrumentality performs the computer-implemented method of claim 15, further comprising causing the interactive whiteboard session window to be moved on top of the videoconference window in response to termination of the video conference session.</p> <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, is capable of further causing the interactive whiteboard session window to be moved on top of the videoconference window in response to termination of the video conference session.</p> <p>As shown in the screenshot below, it depicts an active interactive whiteboard session window overlaid by a videoconference window in the upper-right corner of the interactive whiteboard session window.</p> <p>A videoconference control bar is displayed in the lower portion of the interactive whiteboard session window. The videoconference control bar includes an “End” button (highlighted in a yellow box), which allows a user to terminate the videoconference session.</p> |

| Claims of US Patent No. 10,904,487                                                                                                                                                                                                                                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                                                                                                                                                                                                                                                                          |  <p>On information and belief, upon termination of the videoconference session through the “End” button, the interactive whiteboard session window is repositioned to occupy the display area previously occupied by the videoconference window. As a result, the interactive whiteboard session window moves on top of, and overlays the area formerly occupied by the videoconference window.</p>                                                                                                         |
| <p>20. The computer-implemented method of claim 15, further comprising causing an interactive whiteboard session to be shared with the one or more client devices that are external to the whiteboard device by invoking functionality</p> | <p>The Accused Instrumentality performs the computer-implemented method of claim 15, further comprising causing an interactive whiteboard session to be shared with the one or more client devices that are external to the whiteboard device by invoking functionality provided by a collaboration library on the whiteboard device.</p> <p>As a non-limiting example, the Accused Instrumentality such as Zoom Rooms pre-installed on DTEN D7, is capable of further causing an interactive whiteboard session to be shared with the one or more client</p> |

| Claims of US Patent No. 10,904,487                                   | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <p>provided by a collaboration library on the whiteboard device.</p> | <p>devices that are external to the whiteboard device by invoking functionality provided by a collaboration library on the whiteboard device.</p> <p>A non-limiting example is shown below:</p>  <p>After power-on, DTEN D7 displays a screen that allows the user to select the “Whiteboard” icon. Selecting the “Whiteboard” icon opens an interactive whiteboard session window, which includes at least an interactive whiteboard session content area on the display. A selection menu is overlaid on the interactive whiteboard session window. This selection menu includes a "NEW SHARE" option, which allows the user to share the interactive whiteboard session with one or more client devices that are external to DTEN D7 and are communicatively coupled with DTEN D7 through a network.</p> |

| Claims of US Patent No. 10,904,487 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                                    | <p>On information and belief, the interactive whiteboard session that is shared with one or more client devices invokes functionality provided by a collaboration library, framework, module, or its equivalent. For example, Zoom Rooms, including its associated clients and software components, provides functionality for establishing, maintaining, and/or managing videoconferencing sessions with terminal devices external to the DTEN D7. The interactive whiteboard session utilizes and/or calls upon such collaboration functionality to enable communication and content sharing between the DTEN D7 and the external client devices participating in the session.</p> |

# Exhibit B

**Exhibit B**  
**Infringement Claim Chart for U.S. Patent No. 10,909,059**

Ricoh Company, Ltd. (“Ricoh”) provides evidence of infringement of claims 1-6 of U.S. Patent No. 10,909,059 (hereinafter “the ’059 Patent”) by Defendant Zoom Communications, Inc. f/k/a Zoom Video Communications, Inc. (“Zoom”). In support thereof, Ricoh provides the following claim chart. “Accused Instrumentality” as used herein refers to Zoom’s video conferencing products and services, including but not limited to, Zoom Meetings, Zoom Rooms, Zoom Sessions, and Zoom Webinar, and associated software and accessories.

This claim chart demonstrates Zoom’s infringement and provides notice of such infringement, by comparing each element of the asserted claim to corresponding components, aspects, and/or features of the Accused Instrumentality. This claim chart is not intended to constitute an expert report on infringement. This claim chart includes information provided by way of example, and not by way of limitation.

Zoom has not produced any documents requested in discovery, including its core technical documents, to enable Ricoh to properly analyze and identify all Accused Instrumentality, associated functionalities, and related Zoom software. An analysis of Zoom’s (or other third parties’) technical documentation and/or software source code may assist in fully identifying all infringing features and functionality. Accordingly, Ricoh reserves the right to supplement this infringement analysis once such information is made available to Ricoh. Furthermore, Ricoh reserves the right to revise this infringement analysis, as appropriate, upon issuance of a court order construing any terms recited in the claims of the ’059 Patent.

Unless otherwise noted, Ricoh contends that Zoom directly infringes the ’059 Patent in violation of 35 U.S.C. § 271(a) by selling, offering to sell, making, using, and/or importing the Accused Instrumentality. The following exemplary analysis demonstrates that infringement. Unless otherwise noted, Ricoh further contends that the evidence below supports a finding of indirect infringement under 35 U.S.C. §§ 271(b) and/or (c), in conjunction with other evidence of liability under one or more of those subsections. Zoom makes, uses, sells, imports, or offers for sale in the United States, or has made, used, sold, imported, or offered for sale in the past, without authority, or induces others to make, use, sell, import, or offer for sale in the United States, or has induced others to make, use, sell, import, or offer for sale in the past, without authority, products, equipment, or services that infringe claims 1-6 of the ’059 Patent, including without limitation, the Accused Instrumentality.

Unless otherwise noted, Ricoh believes and contends that each element of the claims asserted herein is literally met through Zoom’s provision of the Accused Instrumentality. However, to the extent that Zoom attempts to allege that any asserted claim element is not literally met, Ricoh believes and contends that such elements are met under the doctrine of equivalents. More specifically, in its investigation and analysis of the Accused Instrumentality, Ricoh did not identify any substantial differences between the elements of the patent claims and the corresponding features of the Accused Instrumentality, as set forth herein. In each instance, the identified feature of the Accused Instrumentality performs at least substantially the same function in substantially the same way to achieve substantially the same result as the corresponding claim element. In the event that a claim element is deemed to be missing under a literal infringement analysis (e.g., due to the Court’s claim construction), Plaintiff reserves the right to demonstrate the presence of a substantial equivalent of such an element and to pursue infringement under the Doctrine of Equivalents.

To the extent the chart of an asserted claim relies on evidence about certain specifically identified Accused Instrumentality, Ricoh asserts that, on information and belief, any similarly functioning products or instrumentalities also infringe the charted claim. Ricoh reserves the right to amend this infringement analysis based on other products made, used, sold, imported, or offered for sale by Zoom. Ricoh also reserves the right to amend this infringement analysis to chart other claims of the '059 Patent, not listed in the claim chart, that are infringed by the Accused Instrumentality. Ricoh further reserves the right to amend this infringement analysis by adding, subtracting, or otherwise modifying content in the Accused Instrumentality.

All infringement contentions set forth herein for any independent patent claims are hereby incorporated by reference into the infringement contentions alleged for any dependent claims that depend on independent claims, as if fully set forth herein.

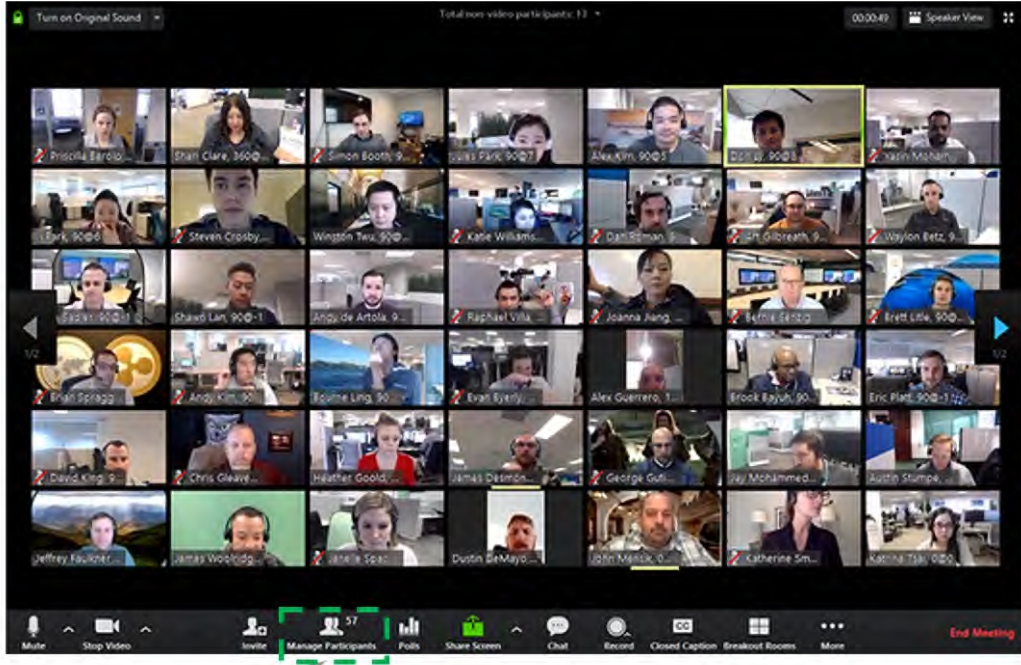
| Claims of US Patent No. 10,909,059                                                                                                                    | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <p>1[pre] A transmission terminal performing a video conference with a plurality of transmission terminals, the transmission terminal comprising:</p> | <p>To the extent the preamble is limiting, a transmission terminal that incorporates the Accused Instrumentality directly infringes claim 1 of the '059 Patent. For example, a Zoom user's device, such as a desktop, laptop, tablet, DTEN D7, or other electronic device is a transmission terminal that incorporates the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms.</p> <p>A non-limiting example is shown below:</p> <p>The <b>DTEN D7</b> is a complete <b>ZOOM</b> Rooms TOUCH conferencing installation, including all hardware and software. The built-in, AI enhanced, 16 element microphone array with 4K camera, offers a best-in-class conferencing, wireless, screen sharing, and white boarding experience. <i>(All software is pre-installed.)</i></p> <p><a href="https://help.dten.com/hc/en-us/article_attachments/900006433903">https://help.dten.com/hc/en-us/article_attachments/900006433903</a> (accessed on July 9, 2025).</p> |

| Claims of US Patent No. 10,909,059 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                                    | <div>  </div> <div> <p>55" DTEN D7</p> </div> <div> <p>SPECIFICATIONS</p> </div> <div> <p><i>All-in-One Video Conferencing for Face to Face Meeting Experience</i></p>  </div> <div>  </div> <div>  </div> <div> <p><small>*D7 in this image is not in 1:1 ratio</small></p> </div> <div>  </div> |

| Claims of US Patent No. 10,909,059 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
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|                                    | <table><tr><td>PRODUCT</td><td>D7 55"</td></tr><tr><td>SOFTWARE</td><td>DTEN D7 OS, provisioned by D7 OS</td></tr><tr><td>ALL-IN-ONE D7</td><td>LED 55" Multi-Touch Display<br/>4K Camera<br/>16-Microphone Array<br/>Integrated Speakers</td></tr><tr><td>DISPLAY</td><td>LED 75" , 4K , 16:9<br/>Capacitive Touch Screen</td></tr><tr><td>CAMERA SYSTEM</td><td>Fixed Lens, Infinite Focus<br/>F-value: 2.8<br/>4K<br/>Diagonal Field of View (FOV): 86 Degrees<br/>Unit Mounted Tilt: 15 Degrees</td></tr><tr><td>AUDIO SYSTEM</td><td>16 Elements Microphone Array<br/>Integrated 2-Channel Stereo Speakers<br/>High Quality 20-kHz Audio<br/>Zoom Rooms Acoustic Echo Cancellation<br/>Automatic Gain Control (AGC)<br/>Automatic Noise Reduction</td></tr><tr><td>NETWORK</td><td>Ethernet (RJ-45) 100/1000 Mbps<br/>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br/>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br/>HTTP Proxy Support</td></tr></table> | PRODUCT | D7 55" | SOFTWARE | DTEN D7 OS, provisioned by D7 OS | ALL-IN-ONE D7 | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers | DISPLAY | LED 75" , 4K , 16:9<br>Capacitive Touch Screen | CAMERA SYSTEM | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees | AUDIO SYSTEM | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction | NETWORK | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support | <table><tr><td>INPUTS AND OUTPUTS</td><td>HDMI Out x 1<br/>USB 3.0 x 1<br/>3.5-mm Audio Jack x 1<br/>Microphone x 1<br/>Ethernet LAN (RJ45) x 1</td></tr><tr><td>POWER</td><td>Auto-Sensing Power Supply<br/>100 to 240 VAC, 50 to 60 Hz</td></tr><tr><td>PRODUCT DIMENSIONS</td><td>49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)</td></tr><tr><td>PRODUCT WEIGHT</td><td>50.7 lb (23 kg)</td></tr><tr><td>PACKAGE DIMENSIONS</td><td>56 x 36 x 8.5 in (142 x 92 x 21.5 cm)</td></tr><tr><td>PACKAGE WEIGHT</td><td>77 lb (35 kg)</td></tr><tr><td>OPERATING TEMPERATURE AND HUMIDITY</td><td>Operating Temperature 0°C to 40°C<br/>Storage Temperature -10°C to 60°C<br/>Operating Humidity 20% to 80% RH<br/>Storage Humidity 10% to 60% RH</td></tr><tr><td>LANGUAGE SUPPORT</td><td>English<br/>* Additional languages to be supported in future software release</td></tr><tr><td>SYSTEM REQUIREMENT</td><td>Zoom Rooms License</td></tr><tr><td>APPROVALS AND COMPLIANCE</td><td>FCC, CE, CCC, ROHS, ACMA, CB<br/>PSE, TELEC, BIS (Pending)</td></tr></table> | INPUTS AND OUTPUTS | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1 | POWER | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz | PRODUCT DIMENSIONS | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm) | PRODUCT WEIGHT | 50.7 lb (23 kg) | PACKAGE DIMENSIONS | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm) | PACKAGE WEIGHT | 77 lb (35 kg) | OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH | LANGUAGE SUPPORT | English<br>* Additional languages to be supported in future software release | SYSTEM REQUIREMENT | Zoom Rooms License | APPROVALS AND COMPLIANCE | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending) |
| PRODUCT                            | D7 55"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| SOFTWARE                           | DTEN D7 OS, provisioned by D7 OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| ALL-IN-ONE D7                      | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| DISPLAY                            | LED 75" , 4K , 16:9<br>Capacitive Touch Screen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| CAMERA SYSTEM                      | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| AUDIO SYSTEM                       | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| NETWORK                            | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| INPUTS AND OUTPUTS                 | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| POWER                              | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PRODUCT DIMENSIONS                 | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PRODUCT WEIGHT                     | 50.7 lb (23 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PACKAGE DIMENSIONS                 | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PACKAGE WEIGHT                     | 77 lb (35 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| LANGUAGE SUPPORT                   | English<br>* Additional languages to be supported in future software release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| SYSTEM REQUIREMENT                 | Zoom Rooms License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| APPROVALS AND COMPLIANCE           | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
|                                    | <p><a href="https://help.dten.com/hc/en-us/article_attachments/900000230303">https://help.dten.com/hc/en-us/article_attachments/900000230303</a> (accessed on July 9, 2025).</p> <p>Non-limiting examples of Zoom user’s devices such as desktop computers, laptops, and mobile devices (regardless of hardware brand) are shown below:</p> <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |

| Claims of US Patent No. 10,909,059 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|                                    | <p><a href="https://wigatos.com/22172-cara-zoom-meeting-di-laptop/">https://wigatos.com/22172-cara-zoom-meeting-di-laptop/</a> (accessed on July 7, 2026)</p>  <p><a href="https://dailybruin.com/2024/04/23/research-reveals-delaying-in-person-medical-residency-visits-can-reduce-inequities">https://dailybruin.com/2024/04/23/research-reveals-delaying-in-person-medical-residency-visits-can-reduce-inequities</a> (accessed on July 7, 2026)</p>  <p><a href="https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/">https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/</a> (accessed on July 7, 2026)</p> |

| Claims of US Patent No. 10,909,059 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p>On information and belief, Zoom supplies its proprietary software that, upon activation, engagement, or use by any user or operator, takes functional control of the underlying hardware on which it runs, regardless of the make, brand, or original configuration of that hardware. Once Zoom’s software is installed and activated, the host device—whether a desktop computer, laptop, tablet, smartphone, conference room system such as DTEN D7, or other computing device—ceases to function as a general-purpose machine with respect to the claimed functionalities and instead operates as a Zoom special purpose computer: a device that is directed, managed, and/or controlled by Zoom’s proprietary software to perform the specific functions of video conferencing. Accordingly, the Accused Instrumentalities encompass not only Zoom’s software but also any hardware device on which Zoom’s software is activated, engaged, or used, as such devices become a Zoom special purpose computer for purposes of the infringing acts described herein.</p> <p>Another non-limiting example is shown below:</p> <p>The screenshot below illustrates a transmission terminal (e.g., DTEN D7 and/or a Zoom user’s device with Zoom Meetings installed) performing a video conference with a plurality of transmission terminals.</p> |

| Claims of US Patent No. 10,909,059                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                          |  <p><a href="https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png">https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png</a><br/>(accessed on June 25, 2026).</p>                                                                                                                                |
| <p>1[a] processor processing circuitry configured to</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes a processor processing circuitry that is configured to implement the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms.</p> <p>On information and belief, DTEN D7 or a Zoom user's device operates on Windows IoT or similar platform, which requires a processor to execute its operating system and application software.</p> |

| Claims of US Patent No. 10,909,059                                                                                                                                                                                                                                                                                                                      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                         | <p><a href="https://help.dten.com/hc/en-us/articles/360019135353-DTEN-D7-55-Windows-FAQ">https://help.dten.com/hc/en-us/articles/360019135353-DTEN-D7-55-Windows-FAQ</a> (accessed on July 9, 2025).</p> <p>As another non-limiting example, DTEN D7X is available in 55” and 75”, with Windows or Android OS, which requires a processor to execute its operating system and application software.</p> <p><a href="https://www.dten.com/products/d7x/">https://www.dten.com/products/d7x/</a> (accessed on June 22, 2026).</p> |
| <p>1[b] display, on a screen of the transmission terminal, information concerning a total number of transmission terminals participating in the video conference, and display, on the screen of the transmission terminal, respective sets of image data transmitted by transmission terminals participating in the video conference to each other,</p> | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms installed in DTEN D7 and/or a Zoom user’s device displays, on a screen of the transmission terminal, information concerning a total number of transmission terminals participating in the video conference, and displays, on the screen of the transmission terminal, respective sets of image data transmitted by transmission terminals participating in the video conference to each other.</p> <p>A non-limiting example is shown below:</p>         |

| Claims of US Patent No. 10,909,059                                                                                                                                                                                           | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                              |  <p><a href="https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png">https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png</a><br/>(accessed on June 25, 2026).</p> <p>As shown in the screenshot above, the total number of participants is 57, which informs each user of the total number of transmission terminals (i.e., participant devices) currently participating in the video conference. The Accused Instrumentality further displays, on the same screen, respective sets of image data (e.g., video feeds, video tiles, video thumbnails, or analogous visual representations) transmitted by the transmission terminals participating in the video conference to each other.</p> |
| <p>1[c] wherein a number of the sets of image data, transmitted by transmission terminals participating in the video conference to each other, to display on the screen of the transmission terminal is smaller than the</p> | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms installed in DTEN D7 and/or a Zoom user's device displays, on the screen of the transmission terminal, respective sets of image data transmitted by transmission terminals participating in the video conference to each other, where a number of the sets of image data, transmitted by transmission terminals participating in the video conference to each</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Claims of US Patent No. 10,909,059                                                   | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>total number of transmission terminals participating in the video conference.</p> | <p>other, to display on the screen of the transmission terminal is smaller than the total number of transmission terminals participating in the video conference.</p> <p>A non-limiting example is shown below:</p> <div><p>total number of participants (57)</p></div> <p><a href="https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png">https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png</a><br/>(accessed on June 25, 2026).</p> <p>As shown in the screenshot above, the Accused Instrumentality allows 42 participant video feeds (e.g., the number of the sets of image data) to be displayed on the screen, which is smaller than the total number of participants (transmission terminals participating in the video conference), which is 57.</p> |

| Claims of US Patent No. 10,909,059                                                                                                                                                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>2. The transmission terminal according to claim 1, wherein</p> <p>the processing circuitry is configured to display information concerning names or identification information of transmission terminals performing the video conference.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is a transmission terminal according to claim 1, where the processing circuitry is configured to display information concerning names or identification information of transmission terminals performing the video conference.</p> <p>A non-limiting example is shown below:</p>  <p><a href="https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0066807">https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0066807</a>(accessed on June 25, 2026).</p> <p>As shown in the screenshot above, the Accused Instrumentality displays information concerning names of participants and identification information of transmission terminals performing the video conference.</p> |
| <p>3[pre] A transmission terminal performing a video conference with a plurality of</p>                                                                                                                                                          | <p>To the extent the preamble is limiting, a transmission terminal that incorporates the Accused Instrumentality directly infringes claim 3 of the '059 Patent. For example, a Zoom user's device, such as a desktop, laptop,</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| Claims of US Patent No. 10,909,059                                   | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>transmission terminals, the transmission terminal comprising:</p> | <p>tablet, DTEN D7, or other electronic device is a transmission terminal that incorporates the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms.</p> <p>A non-limiting example is shown below:</p> <p>The <b>DTEN D7</b> is a complete <b>Zoom</b> Rooms TOUCH conferencing installation, including all hardware and software. The built-in, AI enhanced, 16 element microphone array with 4K camera, offers a best-in-class conferencing, wireless, screen sharing, and white boarding experience. <i>(All software is pre-installed.)</i></p> <p><a href="https://help.dten.com/hc/en-us/article_attachments/900006433903">https://help.dten.com/hc/en-us/article_attachments/900006433903</a> (accessed on July 9, 2025).</p> <div>  <p><b>55" DTEN D7</b></p> <p><b>SPECIFICATIONS</b></p> <p><i>All-in-One Video Conferencing for Face to Face Meeting Experience</i></p>   <p><small>*D7 in this image is not in 1:1 ratio</small></p>  </div> |

| Claims of US Patent No. 10,909,059 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|----------|----------------------------------|---------------|----------------------------------------------------------------------------------------|---------|------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------|--------------------|------------------------------------------------|----------------|-----------------|--------------------|---------------------------------------|----------------|---------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------|--------------------|--------------------|--------------------------|-----------------------------------------------------------|
|                                    | <table><tr><td>PRODUCT</td><td>D7 55"</td></tr><tr><td>SOFTWARE</td><td>DTEN D7 OS, provisioned by D7 OS</td></tr><tr><td>ALL-IN-ONE D7</td><td>LED 55" Multi-Touch Display<br/>4K Camera<br/>16-Microphone Array<br/>Integrated Speakers</td></tr><tr><td>DISPLAY</td><td>LED 75" , 4K , 16:9<br/>Capacitive Touch Screen</td></tr><tr><td>CAMERA SYSTEM</td><td>Fixed Lens, Infinite Focus<br/>F-value: 2.8<br/>4K<br/>Diagonal Field of View (FOV): 86 Degrees<br/>Unit Mounted Tilt: 15 Degrees</td></tr><tr><td>AUDIO SYSTEM</td><td>16 Elements Microphone Array<br/>Integrated 2-Channel Stereo Speakers<br/>High Quality 20-kHz Audio<br/>Zoom Rooms Acoustic Echo Cancellation<br/>Automatic Gain Control (AGC)<br/>Automatic Noise Reduction</td></tr><tr><td>NETWORK</td><td>Ethernet (RJ-45) 100/1000 Mbps<br/>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br/>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br/>HTTP Proxy Support</td></tr></table> | PRODUCT | D7 55" | SOFTWARE | DTEN D7 OS, provisioned by D7 OS | ALL-IN-ONE D7 | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers | DISPLAY | LED 75" , 4K , 16:9<br>Capacitive Touch Screen | CAMERA SYSTEM | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees | AUDIO SYSTEM | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction | NETWORK | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support | <table><tr><td>INPUTS AND OUTPUTS</td><td>HDMI Out x 1<br/>USB 3.0 x 1<br/>3.5-mm Audio Jack x 1<br/>Microphone x 1<br/>Ethernet LAN (RJ45) x 1</td></tr><tr><td>POWER</td><td>Auto-Sensing Power Supply<br/>100 to 240 VAC, 50 to 60 Hz</td></tr><tr><td>PRODUCT DIMENSIONS</td><td>49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)</td></tr><tr><td>PRODUCT WEIGHT</td><td>50.7 lb (23 kg)</td></tr><tr><td>PACKAGE DIMENSIONS</td><td>56 x 36 x 8.5 in (142 x 92 x 21.5 cm)</td></tr><tr><td>PACKAGE WEIGHT</td><td>77 lb (35 kg)</td></tr><tr><td>OPERATING TEMPERATURE AND HUMIDITY</td><td>Operating Temperature 0°C to 40°C<br/>Storage Temperature -10°C to 60°C<br/>Operating Humidity 20% to 80% RH<br/>Storage Humidity 10% to 60% RH</td></tr><tr><td>LANGUAGE SUPPORT</td><td>English<br/>* Additional languages to be supported in future software release</td></tr><tr><td>SYSTEM REQUIREMENT</td><td>Zoom Rooms License</td></tr><tr><td>APPROVALS AND COMPLIANCE</td><td>FCC, CE, CCC, ROHS, ACMA, CB<br/>PSE, TELEC, BIS (Pending)</td></tr></table> | INPUTS AND OUTPUTS | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1 | POWER | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz | PRODUCT DIMENSIONS | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm) | PRODUCT WEIGHT | 50.7 lb (23 kg) | PACKAGE DIMENSIONS | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm) | PACKAGE WEIGHT | 77 lb (35 kg) | OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH | LANGUAGE SUPPORT | English<br>* Additional languages to be supported in future software release | SYSTEM REQUIREMENT | Zoom Rooms License | APPROVALS AND COMPLIANCE | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending) |
| PRODUCT                            | D7 55"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| SOFTWARE                           | DTEN D7 OS, provisioned by D7 OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| ALL-IN-ONE D7                      | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| DISPLAY                            | LED 75" , 4K , 16:9<br>Capacitive Touch Screen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| CAMERA SYSTEM                      | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| AUDIO SYSTEM                       | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| NETWORK                            | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| INPUTS AND OUTPUTS                 | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| POWER                              | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PRODUCT DIMENSIONS                 | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PRODUCT WEIGHT                     | 50.7 lb (23 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PACKAGE DIMENSIONS                 | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PACKAGE WEIGHT                     | 77 lb (35 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| LANGUAGE SUPPORT                   | English<br>* Additional languages to be supported in future software release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| SYSTEM REQUIREMENT                 | Zoom Rooms License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| APPROVALS AND COMPLIANCE           | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
|                                    | <p><a href="https://help.dten.com/hc/en-us/article_attachments/900000230303">https://help.dten.com/hc/en-us/article_attachments/900000230303</a> (accessed on July 9, 2025).</p> <p>Non-limiting examples of Zoom user’s devices such as desktop computers, laptops, and mobile devices (regardless of hardware brand) are shown below:</p> <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |

<https://wigatos.com/22172-cara-zoom-meeting-di-laptop/> (accessed on July 7, 2026).

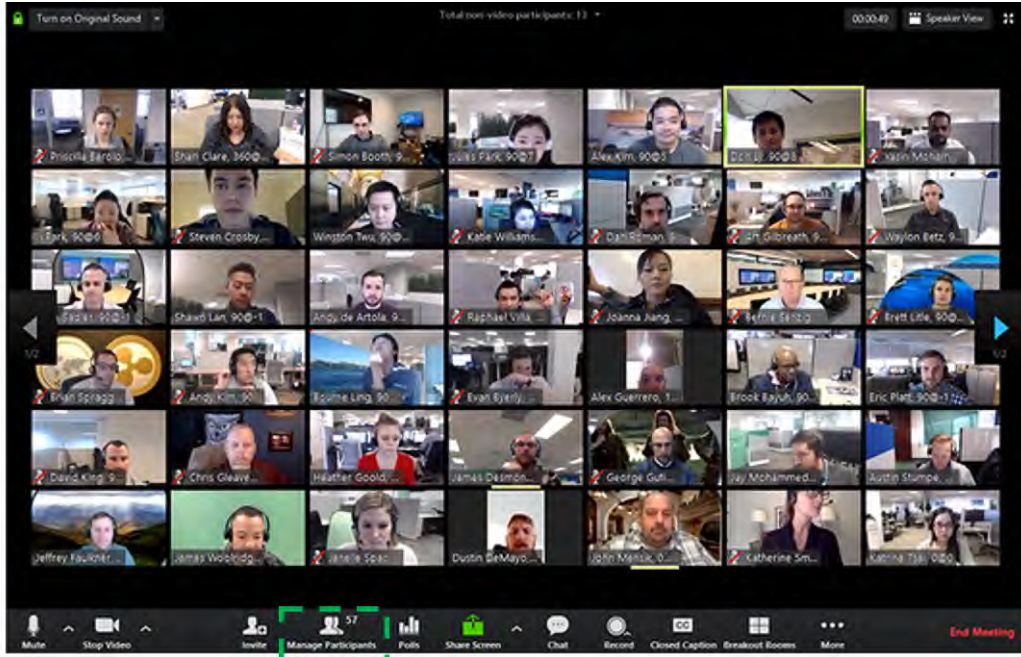


<https://dailybruin.com/2024/04/23/research-reveals-delaying-in-person-medical-residency-visits-can-reduce-inequities> (accessed on July 7, 2026).

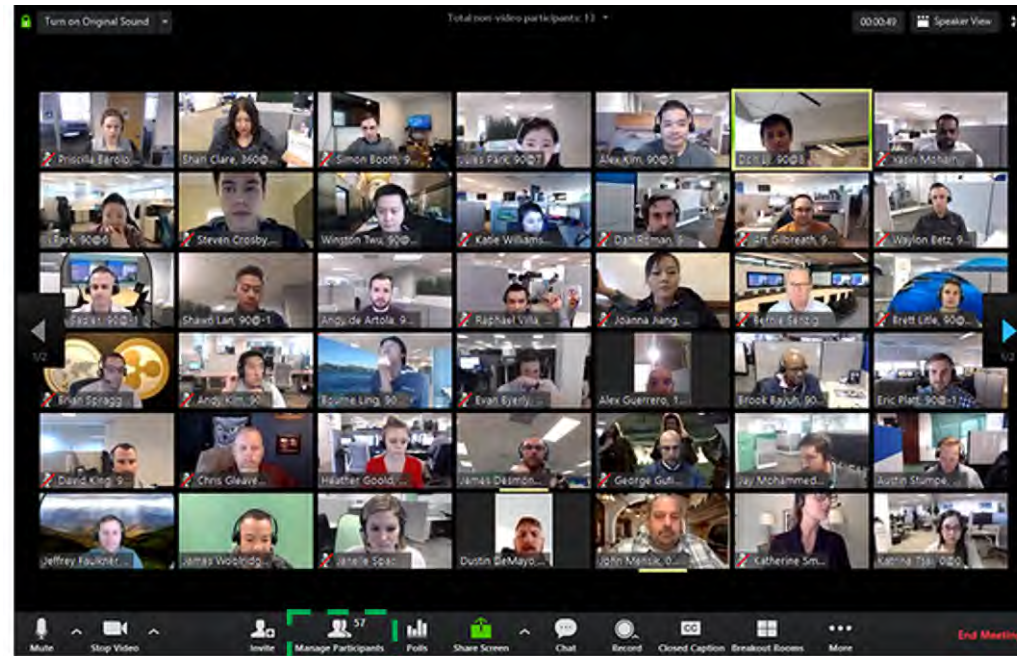


<https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/> (accessed on July 7, 2026).

| Claims of US Patent No. 10,909,059 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p>On information and belief, Zoom supplies its proprietary software that, upon activation, engagement, or use by any user or operator, takes functional control of the underlying hardware on which it runs, regardless of the make, brand, or original configuration of that hardware. Once Zoom’s software is installed and activated, the host device—whether a desktop computer, laptop, tablet, smartphone, conference room system such as DTEN D7, or other computing device—ceases to function as a general-purpose machine with respect to the claimed functionalities and instead operates as a Zoom special purpose computer: a device that is directed, managed, and/or controlled by Zoom’s proprietary software to perform the specific functions of video conferencing. Accordingly, the Accused Instrumentalities encompass not only Zoom’s software but also any hardware device on which Zoom’s software is activated, engaged, or used, as such devices become a Zoom special purpose computer for purposes of the infringing acts described herein.</p> <p>Another non-limiting example is shown below:</p> <p>The screenshot below illustrates a transmission terminal (e.g., DTEN D7 and/or a Zoom user’s device with Zoom Meetings installed) performing a video conference with a plurality of transmission terminals.</p> |

| Claims of US Patent No. 10,909,059                                                                                                                                                                                                                                                                                                    | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                       |  <p><a href="https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png">https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png</a><br/>(accessed on June 25, 2026).</p>                                                                                                                                                                                                                                                      |
| <p>3[a] processing circuitry configured to display, on a screen of the transmission terminal, information concerning a total number of transmission terminals participating in the video conference, and display, on the screen of the transmission terminal, respective sets of image data transmitted by transmission terminals</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes processing circuitry configured to implement the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms to display, on a screen of the transmission terminal, information concerning a total number of transmission terminals participating in the video conference, and display, on the screen of the transmission terminal, respective sets of image data transmitted by transmission terminals participating in the video conference to each other.</p> |

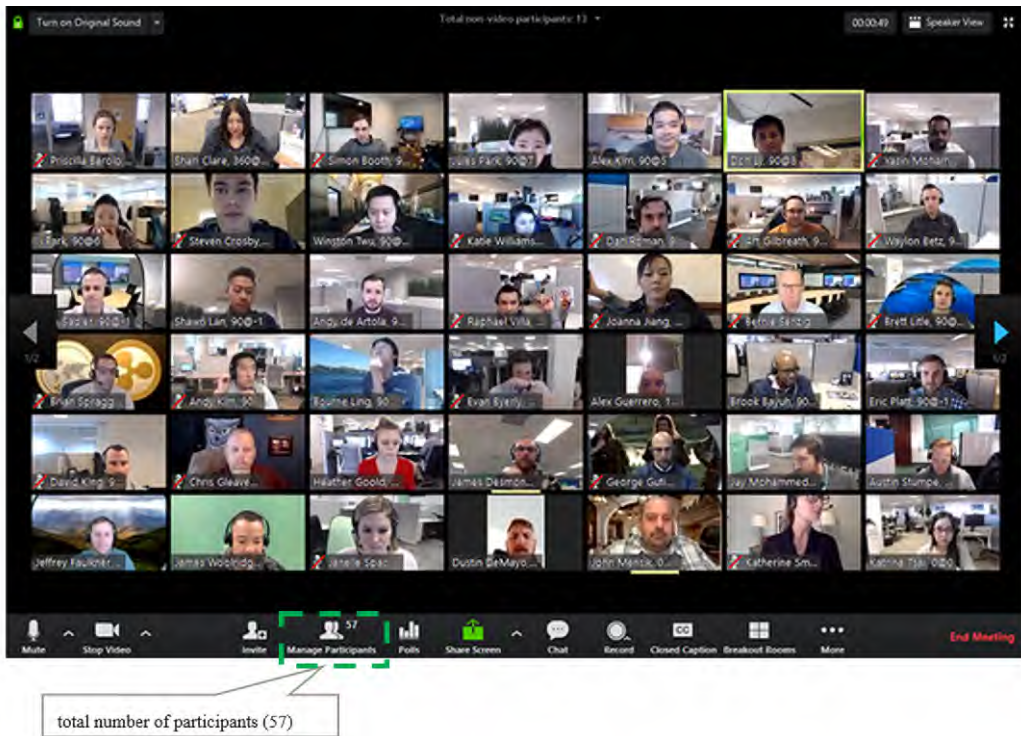
| Claims of US Patent No. 10,909,059                          | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>participating in the video conference to each other,</p> | <p>On information and belief, DTEN D7 and/or a Zoom user's device operates on Windows IoT or similar platform, which requires a processor to execute its operating system and application software such as Zoom Meetings and/or Zoom Rooms.</p> <p><a href="https://help.dten.com/hc/en-us/articles/360019135353-DTEN-D7-55-Windows-FAQ">https://help.dten.com/hc/en-us/articles/360019135353-DTEN-D7-55-Windows-FAQ</a> (accessed on July 9, 2025).</p> <p>As another non-limiting example, DTEN D7X is available in 55" and 75", with Windows or Android OS, which requires a processor to execute its operating system and application software such as Zoom Meetings and/or Zoom Rooms.</p> <p><a href="https://www.dten.com/products/d7x/">https://www.dten.com/products/d7x/</a> (accessed on June 22, 2026).</p> <p>For example, the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms installed in DTEN D7 and/or a Zoom user's device displays, on a screen of the transmission terminal, information concerning a total number of transmission terminals participating in the video conference, and displays, on the screen of the transmission terminal, respective sets of image data transmitted by transmission terminals participating in the video conference to each other.</p> |



total number of participants (57)

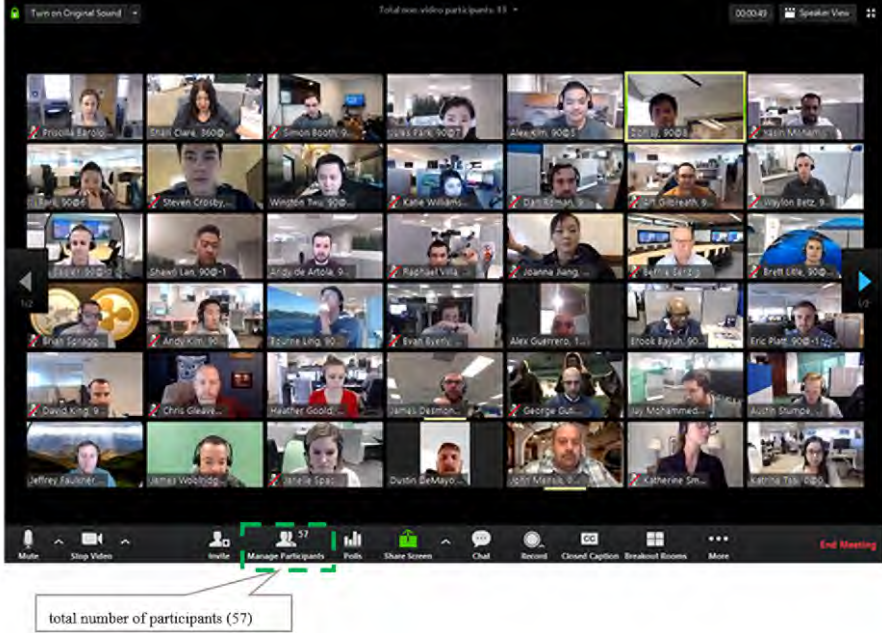
<https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png>  
(accessed on June 25, 2026).

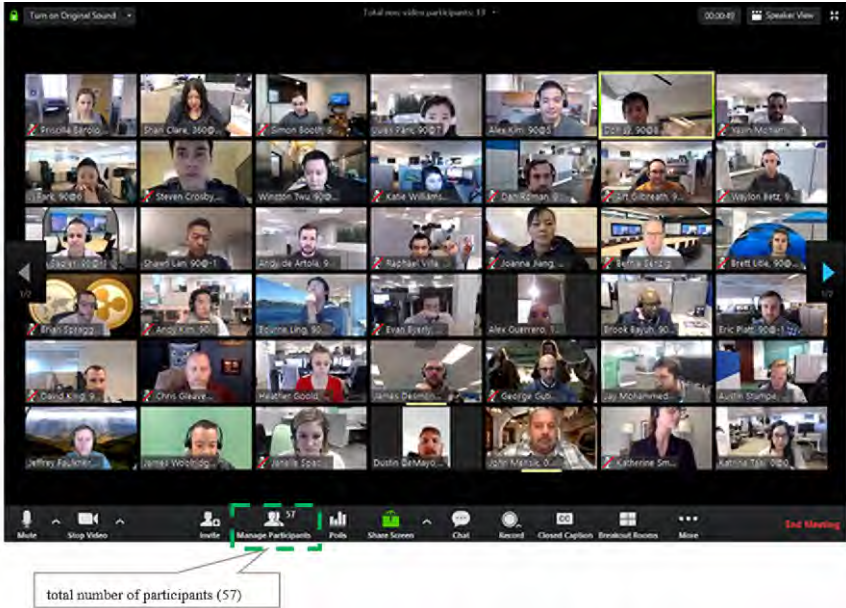
As shown in the screenshot above, the total number of participants is 57, which informs each user of the total number of transmission terminals (i.e., participant devices) currently participating in the video conference. The Accused Instrumentality further displays, on the same screen, respective sets of image data (e.g., video feeds, video tiles, video thumbnails, or analogous visual representations) transmitted by the transmission terminals participating in the video conference to each other.

| Claims of US Patent No. 10,909,059                                                                                                                                                                                                                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>3[b] wherein the total number of transmission terminals participating in the video conference is greater than a number of the sets of image data, transmitted by transmission terminals participating in the video conference to each other, to display on the screen of the transmission terminal.</p> | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms installed in DTEN D7 and/or a Zoom user's device displays, on the screen of the transmission terminal, respective sets of image data transmitted by transmission terminals participating in the video conference to each other, where the total number of transmission terminals participating in the video conference is greater than a number of the sets of image data, transmitted by transmission terminals participating in the video conference to each other, to display on the screen of the transmission terminal.</p> <p>A non-limiting example is shown below:</p>  <p><a href="https://cas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png">https://cas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png</a><br/>(accessed on June 25, 2026).</p> |

| Claims of US Patent No. 10,909,059                                                                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|                                                                                                                                                            | <p>As shown in the screenshot above, the total number of 57 participants (transmission terminals participating in the video conference), which is greater than 42 participant video feeds (e.g., the number of the sets of image data) to display on the screen of the transmission terminal.</p>                                                                                                                                                                                                                      |
| <p>4[pre] A method implemented by a transmission terminal performing a video conference with a plurality of transmission terminals, method comprising:</p> | <p>To the extent the preamble is limiting, the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method implemented by a transmission terminal performing a video conference with a plurality of transmission terminals.</p> <p>A non-limiting example is shown below:</p> <p>The screenshot below illustrates a transmission terminal (e.g., DTEN D7 and/or a Zoom user's device with Zoom Meetings installed) performing a video conference with a plurality of transmission terminals.</p> |

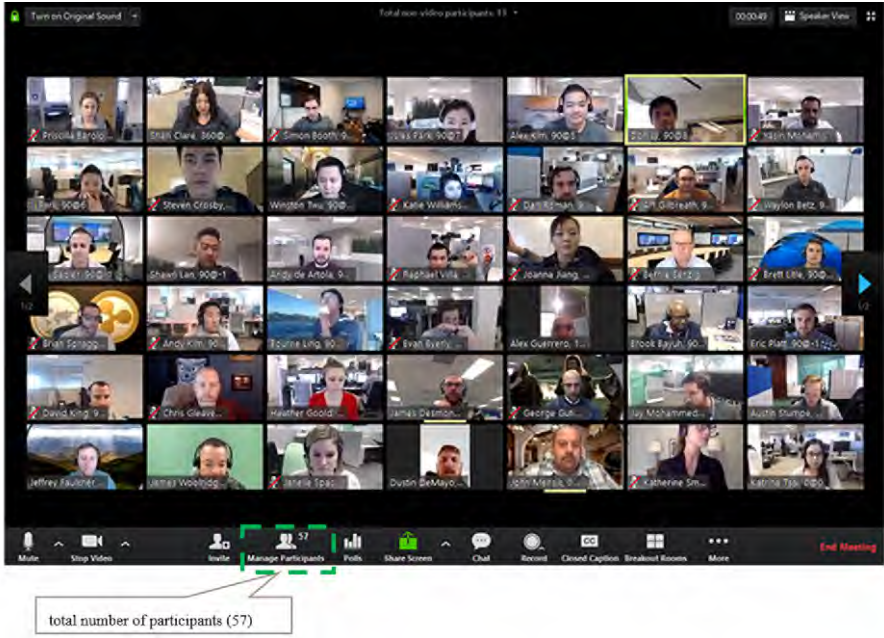
| Claims of US Patent No. 10,909,059                                                                                                                                                                                                                                                            | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                               |  <p>total number of participants (57)</p> <p> <a href="https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png">https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png</a><br/>       (accessed on June 25, 2026).     </p> |
| <p>4[a] displaying on a screen of the transmission terminal, information concerning a total number of transmission terminals participating in the video conference, and displaying, on the screen of the transmission terminal, respective sets of image data transmitted by transmission</p> | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms is capable of displaying on a screen of the transmission terminal information concerning a total number of transmission terminals participating in the video conference, and displaying, on the screen of the transmission terminal, respective sets of image data transmitted by transmission terminals participating in the video conference to each other.</p>                                       |

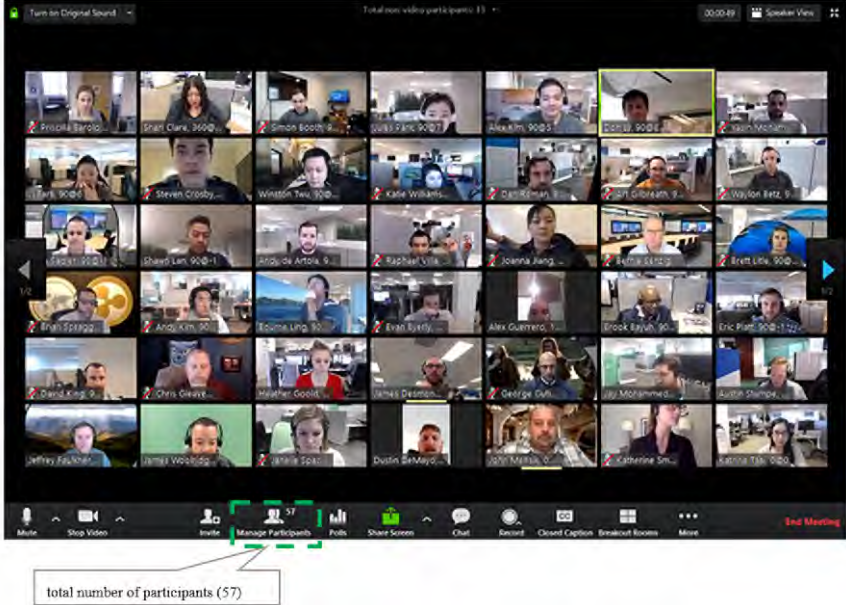
| Claims of US Patent No. 10,909,059                                                                                                     | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>terminals participating in the video conference to each other,</p>                                                                  | <p>A non-limiting example is shown below:</p>  <p><a href="https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png">https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png</a><br/>(accessed on June 25, 2026).</p> <p>As shown in the screenshot above, the total number of participants is 57, which informs each user of the total number of transmission terminals (i.e., participant devices) currently participating in the video conference. The Accused Instrumentality further displays, on the same screen, respective sets of image data (e.g., video feeds, video tiles, video thumbnails, or analogous visual representations) transmitted by the transmission terminals participating in the video conference to each other.</p> |
| <p>4[b] wherein a number of the sets of image data, transmitted by transmission terminals participating in the video conference to</p> | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms installed in DTEN D7 and/or a Zoom user's device is capable of displaying, on the screen of the transmission terminal, respective sets of image data transmitted by transmission terminals participating in the video conference to each other, where a</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Claims of US Patent No. 10,909,059                                                                                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <p>each other, to display on the screen of the transmission terminal is smaller than the total number of transmission terminals participating in the video conference.</p> | <p>number of the sets of image data, transmitted by transmission terminals participating in the video conference to each other, to display on the screen of the transmission terminal is smaller than the total number of transmission terminals participating in the video conference.</p> <p>A non-limiting example is shown below:</p>  <p><a href="https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png">https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png</a><br/>(accessed on June 25, 2026).</p> <p>As shown in the screenshot above, the Accused Instrumentality allows 42 participant video feeds (e.g., the number of the sets of image data) to be displayed on the screen, which is smaller than the total number of participants (transmission terminals participating in the video conference), which is 57.</p> |

| Claims of US Patent No. 10,909,059                                                                                                                                                                     | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>5. The method according to claim 4, further comprising:</p> <p>displaying information concerning names or identification information of transmission terminals performing the video conference.</p> | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs the method according to claim 4, further comprising: displaying information concerning names or identification information of transmission terminals performing the video conference.</p> <p>A non-limiting example is shown below:</p>  <p><a href="https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0066807">https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0066807</a>(accessed on June 25, 2026).</p> <p>As shown in the screenshot above, the Accused Instrumentality is capable of further displaying information concerning names of participants and identification information of transmission terminals performing the video conference.</p> |
| <p>6[pre] A method implemented by a transmission terminal performing a video</p>                                                                                                                       | <p>To the extent the preamble is limiting, the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method implemented by a transmission terminal performing a video conference with a plurality of transmission terminals.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Claims of US Patent No. 10,909,059                                                                                      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <p>conference with a plurality of transmission terminals, the method comprising:</p>                                    | <p>A non-limiting example is shown below:</p> <p>The screenshot below illustrates a transmission terminal (e.g., DTEN D7 and/or a Zoom user's device with Zoom Meetings installed) performing a video conference with a plurality of transmission terminals.</p>  <p><a href="https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png">https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png</a><br/>(accessed on June 25, 2026).</p> |
| <p>6[a] displaying, on a screen of the transmission terminal, information concerning a total number of transmission</p> | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms is capable of displaying on a screen of the transmission terminal information concerning a total number of transmission terminals participating in</p>                                                                                                                                                                                                                                                                                                                                                                                                  |

| Claims of US Patent No. 10,909,059                                                                                                                                                                                                           | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <p>terminals participating in the video conference, and displaying, on the screen of the transmission terminal, respective sets of image data transmitted by transmission terminals participating in the video conference to each other,</p> | <p>the video conference, and displaying, on the screen of the transmission terminal, respective sets of image data transmitted by transmission terminals participating in the video conference to each other.</p> <p>A non-limiting example is shown below:</p> <div></div> <p><a href="https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png">https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png</a><br/>(accessed on June 25, 2026).</p> <p>As shown in the screenshot above, the total number of participants is 57, which informs each user of the total number of transmission terminals (i.e., participant devices) currently participating in the video conference. The Accused Instrumentality further displays, on the same screen, respective sets of image data (e.g., video feeds,</p> |

| Claims of US Patent No. 10,909,059                                                                                                                                                                                                                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                            | <p>video tiles, video thumbnails, or analogous visual representations) transmitted by the transmission terminals participating in the video conference to each other.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>6[b] wherein the total number of transmission terminals participating in the video conference is greater than a number of the sets of image data, transmitted by transmission terminals participating in the video conference to each other, to display on the screen of the transmission terminal.</p> | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms installed in DTEN D7 and/or Zoom user's device is capable of displaying, on the screen of the transmission terminal, respective sets of image data transmitted by transmission terminals participating in the video conference to each other, where the total number of transmission terminals participating in the video conference is greater than a number of the sets of image data, transmitted by transmission terminals participating in the video conference to each other, to display on the screen of the transmission terminal.</p> <p>A non-limiting example is shown below:</p>  <p><a href="https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png">https://eas.princeton.edu/sites/g/files/toruqf6086/files/media/50-participant-gallery-view-example-54.png</a><br/>(accessed on June 25, 2026).</p> |

| Claims of US Patent No. 10,909,059 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                           |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p>As shown in the screenshot above, the total number of 57 participants (transmission terminals participating in the video conference), which is greater than 42 participant video feeds (e.g., the number of the sets of image data) to display on the screen of the transmission terminal.</p> |

# Exhibit C

**Exhibit C**  
**Infringement Claim Chart for U.S. Patent No. 10,931,917**

Ricoh Company, Ltd. (“Ricoh”) provides evidence of infringement of claims 1-15 of U.S. Patent No. 10,931,917 (hereinafter “the ’917 Patent”) by Defendant Zoom Communications, Inc. f/k/a Zoom Video Communications, Inc. (“Zoom”). In support thereof, Ricoh provides the following claim chart. “Accused Instrumentality” as used herein refers to Zoom’s video conferencing products and services, including but not limited to, Zoom Meetings, Zoom Rooms, Zoom Sessions, and Zoom Webinar, and associated software and accessories.

This claim chart demonstrates Zoom’s infringement and provides notice of such infringement, by comparing each element of the asserted claim to corresponding components, aspects, and/or features of the Accused Instrumentality. This claim chart is not intended to constitute an expert report on infringement. This claim chart includes information provided by way of example, and not by way of limitation.

Zoom has not produced any documents requested in discovery, including its core technical documents, to enable Ricoh to properly analyze and identify all Accused Instrumentality, associated functionalities, and related Zoom software. An analysis of Zoom’s (or other third parties’) technical documentation and/or software source code may assist in fully identifying all infringing features and functionality. Accordingly, Ricoh reserves the right to supplement this infringement analysis once such information is made available to Ricoh. Furthermore, Ricoh reserves the right to revise this infringement analysis, as appropriate, upon issuance of a court order construing any terms recited in the claims of the ’917 Patent.

Unless otherwise noted, Ricoh contends that Zoom directly infringes the ’917 Patent in violation of 35 U.S.C. § 271(a) by selling, offering to sell, making, using, and/or importing the Accused Instrumentality. The following exemplary analysis demonstrates that infringement. Unless otherwise noted, Ricoh further contends that the evidence below supports a finding of indirect infringement under 35 U.S.C. §§ 271(b) and/or (c), in conjunction with other evidence of liability under one or more of those subsections. Zoom makes, uses, sells, imports, or offers for sale in the United States, or has made, used, sold, imported, or offered for sale in the past, without authority, or induces others to make, use, sell, import, or offer for sale in the United States, or has induced others to make, use, sell, import, or offer for sale in the past, without authority, products, equipment, or services that infringe claims 1-15 of the ’917 Patent, including without limitation, the Accused Instrumentality.

Unless otherwise noted, Ricoh believes and contends that each element of the claims asserted herein is literally met through Zoom’s provision of the Accused Instrumentality. However, to the extent that Zoom attempts to allege that any asserted claim element is not literally met, Ricoh believes and contends that such elements are met under the doctrine of equivalents. More specifically, in its investigation and analysis of the Accused Instrumentality, Ricoh did not identify any substantial differences between the elements of the patent claims and the corresponding features of the Accused Instrumentality, as set forth herein. In each instance, the identified feature of the Accused Instrumentality performs at least substantially the same function in substantially the same way to achieve substantially the same result as the corresponding claim element. In the event that a claim element is deemed to be missing under a literal infringement analysis (e.g., due to the Court’s claim construction), Plaintiff reserves the right to demonstrate the presence of a substantial equivalent of such an element and to pursue infringement under the Doctrine of Equivalents.

To the extent the chart of an asserted claim relies on evidence about certain specifically identified Accused Instrumentality, Ricoh asserts that, on information and belief, any similarly functioning products or instrumentalities also infringe the charted claim. Ricoh reserves the right to amend this infringement analysis based on other products made, used, sold, imported, or offered for sale by Zoom. Ricoh also reserves the right to amend this infringement analysis to chart other claims of the '917 Patent, not listed in the claim chart, that are infringed by the Accused Instrumentality. Ricoh further reserves the right to amend this infringement analysis by adding, subtracting, or otherwise modifying content in the Accused Instrumentality.

All infringement contentions set forth herein for any independent patent claims are hereby incorporated by reference into the infringement contentions alleged for any dependent claims that depend on independent claims, as if fully set forth herein.

| Claims of US Patent No. 10,931,917                      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1[pre] A first transmission terminal comprising:</p> | <p>To the extent preamble is limiting, a transmission terminal that incorporates the Accused Instrumentality directly infringes claim 1 of the '917 Patent. For example, a Zoom user's device, such as a desktop, laptop, tablet, DTEN D7, or other electronic device is a transmission terminal that incorporates the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms.</p> <p>A non-limiting example is shown below:</p> <p>The <b>DTEN D7</b> is a complete <b>ZOOM</b> Rooms TOUCH conferencing installation, including all hardware and software. The built-in, AI enhanced, 16 element microphone array with 4K camera, offers a best-in-class conferencing, wireless, screen sharing, and white boarding experience. <i>(All software is pre-installed.)</i></p> <p><a href="https://help.dten.com/hc/en-us/article_attachments/900006433903">https://help.dten.com/hc/en-us/article_attachments/900006433903</a> (accessed on July 9, 2025).</p> |

| Claims of US Patent No. 10,931,917 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <div>  </div> <div> <p>55" DTEN D7</p> </div> <div> <p>SPECIFICATIONS</p> </div> <div> <p>All-in-One Video Conferencing for Face to Face Meeting Experience</p>  </div> <div>  </div> <div>  </div> <div> <p>*D7 in this image is not in 1:1 ratio</p> </div> <div>  </div> |

| Claims of US Patent No. 10,931,917 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|----------|----------------------------------|---------------|----------------------------------------------------------------------------------------|---------|------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------|--------------------|------------------------------------------------|----------------|-----------------|--------------------|---------------------------------------|----------------|---------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------|--------------------|--------------------|--------------------------|-----------------------------------------------------------|
|                                    | <table><tr><td>PRODUCT</td><td>D7 55"</td></tr><tr><td>SOFTWARE</td><td>DTEN D7 OS, provisioned by D7 OS</td></tr><tr><td>ALL-IN-ONE D7</td><td>LED 55" Multi-Touch Display<br/>4K Camera<br/>16-Microphone Array<br/>Integrated Speakers</td></tr><tr><td>DISPLAY</td><td>LED 75" , 4K , 16:9<br/>Capacitive Touch Screen</td></tr><tr><td>CAMERA SYSTEM</td><td>Fixed Lens, Infinite Focus<br/>F-value: 2.8<br/>4K<br/>Diagonal Field of View (FOV): 86 Degrees<br/>Unit Mounted Tilt: 15 Degrees</td></tr><tr><td>AUDIO SYSTEM</td><td>16 Elements Microphone Array<br/>Integrated 2-Channel Stereo Speakers<br/>High Quality 20-kHz Audio<br/>Zoom Rooms Acoustic Echo Cancellation<br/>Automatic Gain Control (AGC)<br/>Automatic Noise Reduction</td></tr><tr><td>NETWORK</td><td>Ethernet (RJ-45) 100/1000 Mbps<br/>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br/>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br/>HTTP Proxy Support</td></tr></table> | PRODUCT | D7 55" | SOFTWARE | DTEN D7 OS, provisioned by D7 OS | ALL-IN-ONE D7 | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers | DISPLAY | LED 75" , 4K , 16:9<br>Capacitive Touch Screen | CAMERA SYSTEM | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees | AUDIO SYSTEM | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction | NETWORK | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support | <table><tr><td>INPUTS AND OUTPUTS</td><td>HDMI Out x 1<br/>USB 3.0 x 1<br/>3.5-mm Audio Jack x 1<br/>Microphone x 1<br/>Ethernet LAN (RJ45) x 1</td></tr><tr><td>POWER</td><td>Auto-Sensing Power Supply<br/>100 to 240 VAC, 50 to 60 Hz</td></tr><tr><td>PRODUCT DIMENSIONS</td><td>49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)</td></tr><tr><td>PRODUCT WEIGHT</td><td>50.7 lb (23 kg)</td></tr><tr><td>PACKAGE DIMENSIONS</td><td>56 x 36 x 8.5 in (142 x 92 x 21.5 cm)</td></tr><tr><td>PACKAGE WEIGHT</td><td>77 lb (35 kg)</td></tr><tr><td>OPERATING TEMPERATURE AND HUMIDITY</td><td>Operating Temperature 0°C to 40°C<br/>Storage Temperature -10°C to 60°C<br/>Operating Humidity 20% to 80% RH<br/>Storage Humidity 10% to 60% RH</td></tr><tr><td>LANGUAGE SUPPORT</td><td>English<br/>* Additional languages to be supported in future software release</td></tr><tr><td>SYSTEM REQUIREMENT</td><td>Zoom Rooms License</td></tr><tr><td>APPROVALS AND COMPLIANCE</td><td>FCC, CE, CCC, ROHS, ACMA, CB<br/>PSE, TELEC, BIS (Pending)</td></tr></table> | INPUTS AND OUTPUTS | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1 | POWER | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz | PRODUCT DIMENSIONS | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm) | PRODUCT WEIGHT | 50.7 lb (23 kg) | PACKAGE DIMENSIONS | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm) | PACKAGE WEIGHT | 77 lb (35 kg) | OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH | LANGUAGE SUPPORT | English<br>* Additional languages to be supported in future software release | SYSTEM REQUIREMENT | Zoom Rooms License | APPROVALS AND COMPLIANCE | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending) |
| PRODUCT                            | D7 55"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| SOFTWARE                           | DTEN D7 OS, provisioned by D7 OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| ALL-IN-ONE D7                      | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| DISPLAY                            | LED 75" , 4K , 16:9<br>Capacitive Touch Screen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| CAMERA SYSTEM                      | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| AUDIO SYSTEM                       | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| NETWORK                            | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| INPUTS AND OUTPUTS                 | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| POWER                              | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PRODUCT DIMENSIONS                 | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PRODUCT WEIGHT                     | 50.7 lb (23 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PACKAGE DIMENSIONS                 | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PACKAGE WEIGHT                     | 77 lb (35 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| LANGUAGE SUPPORT                   | English<br>* Additional languages to be supported in future software release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| SYSTEM REQUIREMENT                 | Zoom Rooms License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| APPROVALS AND COMPLIANCE           | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
|                                    | <p><a href="https://help.dten.com/hc/en-us/article_attachments/900000230303">https://help.dten.com/hc/en-us/article_attachments/900000230303</a> (accessed on July 9, 2025).</p> <p>DTEN D7 has a touchscreen, integrated PC, microphone, speaker, HD camera, and Zoom Meetings for Touch pre-installed.</p> <p><a href="https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0063196">https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0063196</a> (accessed July 9, 2025).</p> <p>Non-limiting examples of Zoom user’s devices such as desktop computers, laptops, and mobile devices (regardless of hardware brand) are shown below:</p>                                                                                                                                                                                                                                                                                             |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |

**Claims of US Patent No. 10,931,917**

**ACCUSED INSTRUMENTALITY**



<https://wigatos.com/22172-cara-zoom-meeting-di-laptop/> (accessed on July 7, 2026).



<https://dailybruin.com/2024/04/23/research-reveals-delaying-in-person-medical-residency-visits-can-reduce-inequities> (accessed on July 7, 2026).

| Claims of US Patent No. 10,931,917      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         |  <p><a href="https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/">https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/</a> (accessed on July 7, 2026).</p> <p>On information and belief, Zoom supplies its proprietary software that, upon activation, engagement, or use by any user or operator, takes functional control of the underlying hardware on which it runs, regardless of the make, brand, or original configuration of that hardware. Once Zoom’s software is installed and activated, the host device—whether a desktop computer, laptop, tablet, smartphone, conference room system such as DTEN D7, or other computing device—ceases to function as a general-purpose machine with respect to the claimed functionalities and instead operates as a Zoom special purpose computer: a device that is directed, managed, and/or controlled by Zoom’s proprietary software to perform the specific functions of video conferencing. Accordingly, the Accused Instrumentalities encompass not only Zoom’s software but also any hardware device on which Zoom’s software is activated, engaged, or used, as such devices become a Zoom special purpose computer for purposes of the infringing acts described herein.</p> |
| 1[a] processing circuitry configured to | <p>A Zoom user’s device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes processing circuitry configured to implement the Accused Instrumentality, such as Zoom Meetings and/or Zoom Rooms.</p> <p>By way of a non-limiting example, on information and belief, DTEN D7 or a Zoom user’s device operates on Windows IoT or similar platform, which requires processing circuitry to execute its operating system and application software such as Zoom Meetings and/or Zoom Rooms.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Claims of US Patent No. 10,931,917                 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                    | <p><a href="https://help.dten.com/hc/en-us/articles/360019135353-DTEN-D7-55-Windows-FAQ">https://help.dten.com/hc/en-us/articles/360019135353-DTEN-D7-55-Windows-FAQ</a> (accessed on July 9, 2025).</p> <p>By way of another non-limiting example, DTEN D7X operates on Windows or Android OS, which requires processing circuitry to execute its operating system and application software such as Zoom Meetings and/or Zoom Rooms.</p> <p><a href="https://www.dten.com/products/d7x/">https://www.dten.com/products/d7x/</a> (accessed on June 22, 2026).</p>                                                                                                                                                                                                                                           |
| 1[b] obtain first video data captured by a camera, | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes processing circuitry configured to implement the Accused Instrumentality, such as Zoom Meetings and/or Zoom Rooms to obtain first video data captured by a camera.</p> <p>By way of a non-limiting example, DTEN D7 is provided with a camera and is configured to obtain video data captured by the camera.</p> <p>The <b>DTEN D7</b> is a complete <b>ZOOM</b> Rooms TOUCH conferencing installation, including all hardware and software. The built-in, AI enhanced, 16 element microphone array with 4K camera, offers a best-in-class conferencing, wireless, screen sharing, and white boarding experience. <i>(All software is pre-installed.)</i></p> |

Claims of US Patent No. 10,931,917

ACCUSED INSTRUMENTALITY



55" DTEN D7

SPECIFICATIONS

All-in-One Video  
Conferencing for Face to Face  
Meeting Experience



\*D7 in this image is not in 1:1 ratio



| Claims of US Patent No. 10,931,917 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
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|                                    | <table><tr><td>PRODUCT</td><td>D7 55"</td></tr><tr><td>SOFTWARE</td><td>DTEN D7 OS, provisioned by D7 OS</td></tr><tr><td>ALL-IN-ONE D7</td><td>LED 55" Multi-Touch Display<br/>4K Camera<br/>16-Microphone Array<br/>Integrated Speakers</td></tr><tr><td>DISPLAY</td><td>LED 75" , 4K , 16:9<br/>Capacitive Touch Screen</td></tr><tr><td>CAMERA SYSTEM</td><td>Fixed Lens, Infinite Focus<br/>F-value: 2.8<br/>4K<br/>Diagonal Field of View (FOV): 86 Degrees<br/>Unit Mounted Tilt: 15 Degrees</td></tr><tr><td>AUDIO SYSTEM</td><td>16 Elements Microphone Array<br/>Integrated 2-Channel Stereo Speakers<br/>High Quality 20-kHz Audio<br/>Zoom Rooms Acoustic Echo Cancellation<br/>Automatic Gain Control (AGC)<br/>Automatic Noise Reduction</td></tr><tr><td>NETWORK</td><td>Ethernet (RJ-45) 100/1000 Mbps<br/>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br/>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br/>HTTP Proxy Support</td></tr></table> | PRODUCT | D7 55" | SOFTWARE | DTEN D7 OS, provisioned by D7 OS | ALL-IN-ONE D7 | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers | DISPLAY | LED 75" , 4K , 16:9<br>Capacitive Touch Screen | CAMERA SYSTEM | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees | AUDIO SYSTEM | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction | NETWORK | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support | <table><tr><td>INPUTS AND OUTPUTS</td><td>HDMI Out x 1<br/>USB 3.0 x 1<br/>3.5-mm Audio Jack x 1<br/>Microphone x 1<br/>Ethernet LAN (RJ45) x 1</td></tr><tr><td>POWER</td><td>Auto-Sensing Power Supply<br/>100 to 240 VAC, 50 to 60 Hz</td></tr><tr><td>PRODUCT DIMENSIONS</td><td>49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)</td></tr><tr><td>PRODUCT WEIGHT</td><td>50.7 lb (23 kg)</td></tr><tr><td>PACKAGE DIMENSIONS</td><td>56 x 36 x 8.5 in (142 x 92 x 21.5 cm)</td></tr><tr><td>PACKAGE WEIGHT</td><td>77 lb (35 kg)</td></tr><tr><td>OPERATING TEMPERATURE AND HUMIDITY</td><td>Operating Temperature 0°C to 40°C<br/>Storage Temperature -10°C to 60°C<br/>Operating Humidity 20% to 80% RH<br/>Storage Humidity 10% to 60% RH</td></tr><tr><td>LANGUAGE SUPPORT</td><td>English<br/>* Additional languages to be supported in future software release</td></tr><tr><td>SYSTEM REQUIREMENT</td><td>Zoom Rooms License</td></tr><tr><td>APPROVALS AND COMPLIANCE</td><td>FCC, CE, CCC, ROHS, ACMA, CB<br/>PSE, TELEC, BIS (Pending)</td></tr></table> | INPUTS AND OUTPUTS | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1 | POWER | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz | PRODUCT DIMENSIONS | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm) | PRODUCT WEIGHT | 50.7 lb (23 kg) | PACKAGE DIMENSIONS | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm) | PACKAGE WEIGHT | 77 lb (35 kg) | OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH | LANGUAGE SUPPORT | English<br>* Additional languages to be supported in future software release | SYSTEM REQUIREMENT | Zoom Rooms License | APPROVALS AND COMPLIANCE | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending) |
| PRODUCT                            | D7 55"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| SOFTWARE                           | DTEN D7 OS, provisioned by D7 OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| ALL-IN-ONE D7                      | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| DISPLAY                            | LED 75" , 4K , 16:9<br>Capacitive Touch Screen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| CAMERA SYSTEM                      | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| AUDIO SYSTEM                       | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| NETWORK                            | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| INPUTS AND OUTPUTS                 | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| POWER                              | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PRODUCT DIMENSIONS                 | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PRODUCT WEIGHT                     | 50.7 lb (23 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PACKAGE DIMENSIONS                 | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PACKAGE WEIGHT                     | 77 lb (35 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| LANGUAGE SUPPORT                   | English<br>* Additional languages to be supported in future software release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| SYSTEM REQUIREMENT                 | Zoom Rooms License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| APPROVALS AND COMPLIANCE           | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
|                                    | <a href="https://help.dten.com/hc/en-us/article_attachments/900006433903">https://help.dten.com/hc/en-us/article_attachments/900006433903</a> (accessed on July 9, 2025).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |

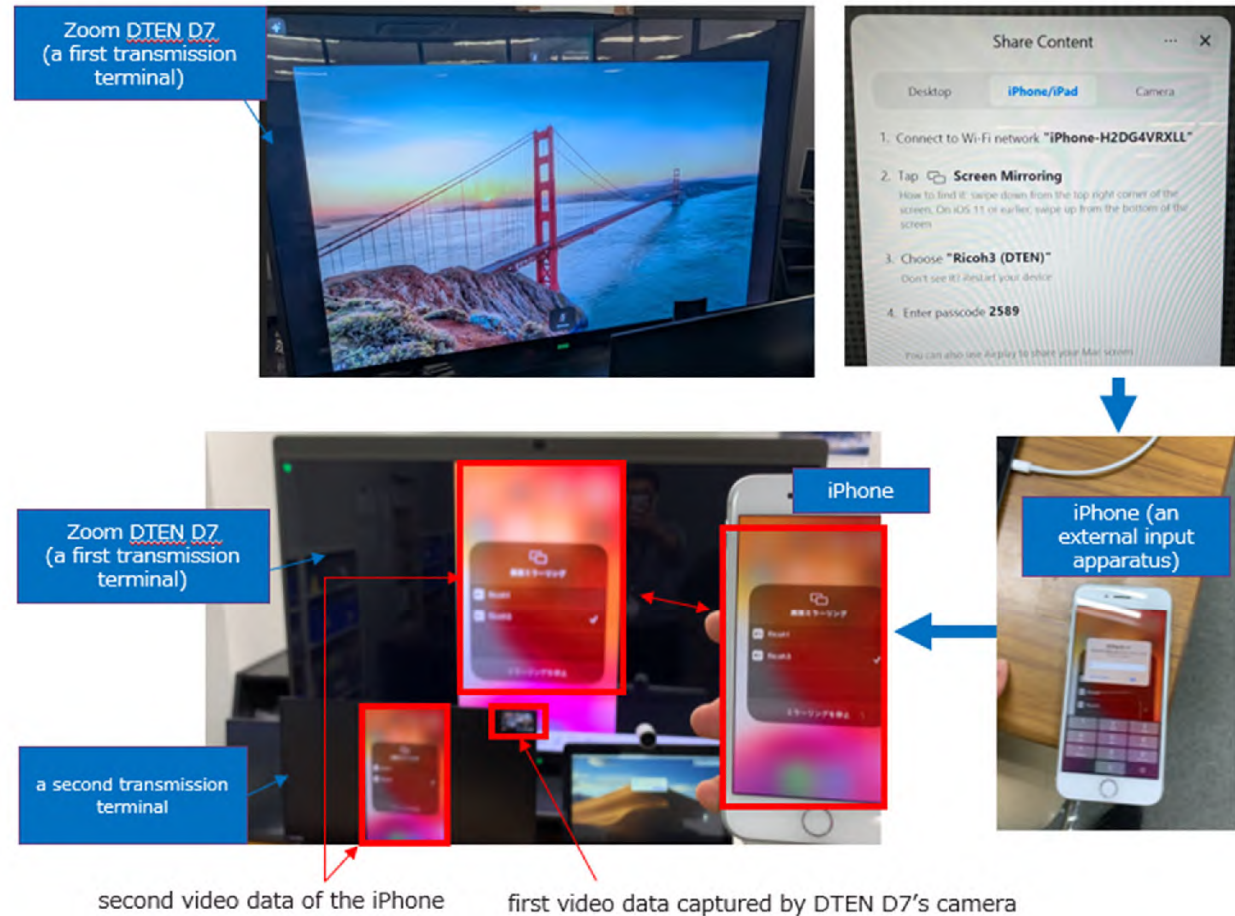
| Claims of US Patent No. 10,931,917                                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                                                                                                                                  |  <p> <a href="https://www.dten.com/ko/products/dten-d7/basic-55/?srsltid=AfmBOop1uaxjfdgOXFXri-Po_cUo8joaJaMniKiBxfZBtpDTquRICjmt">https://www.dten.com/ko/products/dten-d7/basic-55/?srsltid=AfmBOop1uaxjfdgOXFXri-Po_cUo8joaJaMniKiBxfZBtpDTquRICjmt</a> (accessed on June 30, 2026) </p> <p>As shown in the figure above, the DTEN D7, with Zoom Meetings pre-installed, is configured to obtain video data (e.g., video image of the local user seated at the desk) captured by its 4K camera.</p> |
| <p>1[c] log into a management system by transmitting a login request to the management system,</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes processing circuitry configured to implement the Accused Instrumentality, such as Zoom Meetings and/or Zoom Rooms to log into a management system by transmitting a login request to the management system.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                            |



[https://www.dten.com/products/dten-d7/basic-75/?srsltid=AfmBOorfChCLwBXONKPfwpIC\\_FiKy3xDy09DAiGSBOvjOBfG5pBptQJZ](https://www.dten.com/products/dten-d7/basic-75/?srsltid=AfmBOorfChCLwBXONKPfwpIC_FiKy3xDy09DAiGSBOvjOBfG5pBptQJZ) (accessed on June 30, 2026).

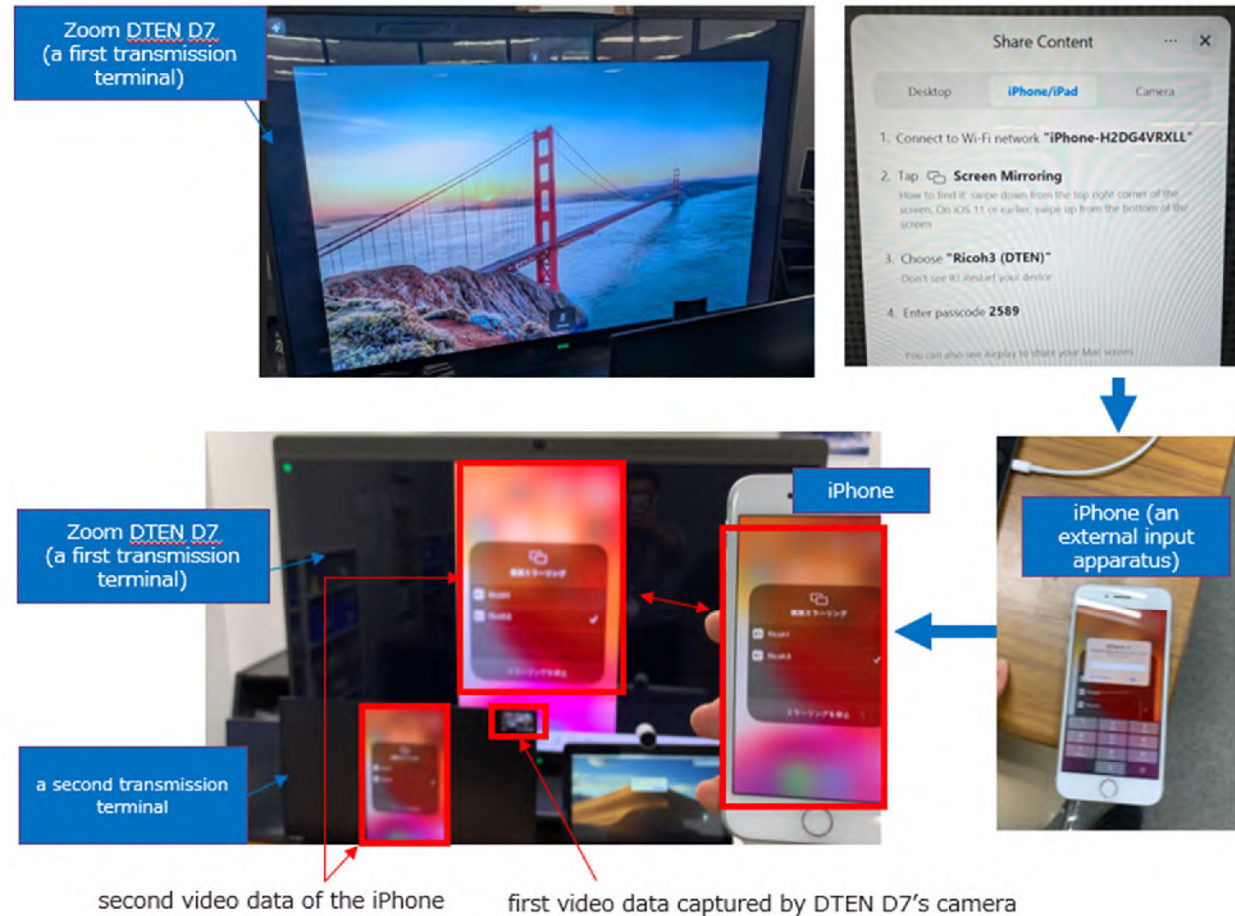
| Claims of US Patent No. 10,931,917                                                                                                                                | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                   | <p>As shown in the figure above, the DTEN D7, with Zoom Meetings pre-installed, is configured to log into a management system, such as Zoom’s video conference management system, by transmitting a login request to the management system. Zoom’s video conference management system may include, without limitation, Zoom Web Infrastructure, Zoom Data Centers, Zoom Cloud, and other server-side components that facilitate authentication, device management, and video conferencing services. A user may provide login credentials to authenticate with and access Zoom’s video conference management system.</p> |
| <p>1[d] establish a communication session for transmitting the first video data to a second transmission terminal that has logged into the management system,</p> | <p>A Zoom user’s device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes processing circuitry configured to implement the Accused Instrumentality, such as Zoom Meetings and/or Zoom Rooms to establish a communication session for transmitting the first video data to a second transmission terminal that has logged into the management system.</p> <p>A non-limiting example is shown below:</p>                                                           |

| Claims of US Patent No. 10,931,917                                                                                                                                                                                                                                                                                                                             | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                | <p><a href="https://www.dten.com/ko/products/dten-d7/basic-55/?srltid=AfmBOop1uaxjfdgOXFXri-Po_cUo8joaJaMniKiBxfZBtpDTquRICjmt">https://www.dten.com/ko/products/dten-d7/basic-55/?srltid=AfmBOop1uaxjfdgOXFXri-Po_cUo8joaJaMniKiBxfZBtpDTquRICjmt</a> (accessed on June 30, 2026)</p> <p>As shown in the figure above, the DTEN D7, with Zoom Meetings pre-installed, is configured to establish a communication session for transmitting the first video data (e.g., the captured video of the local user seated at the desk) to a second transmission terminal (e.g., a terminal participating in the video conference in a remote site) that has logged into the management system (e.g., Zoom's video conference management system).</p> |
| <p>1[e] transmit the first video data using the established communication session,</p>                                                                                                                                                                                                                                                                         | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes processing circuitry configured to implement the Accused Instrumentality, such as Zoom Meetings and/or Zoom Rooms to transmit the first video data using the established communication session.</p> <p>By way of a non-limiting example, the DTEN D7, with Zoom Meetings pre-installed, is configured to transmit the first video data using the established communication session to another transmission terminal participating in the video conference.</p> <p><i>See also, e.g., supra</i> Claim 1[d].</p>                                                                                  |
| <p>1[f] when an external input apparatus that has not logged into the management system is connected with the first transmission terminal during the first video data being displayed on a display screen of the second transmission terminal, receive, from the external input apparatus, second video data obtained in the external input apparatus, and</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes processing circuitry configured to implement the Accused Instrumentality, such as Zoom Meetings and/or Zoom Rooms, when an external input apparatus that has not logged into the management system is connected with the first transmission terminal during the first video data being displayed on a display screen of the second transmission terminal, receive, from the external input apparatus, second video data obtained in the external input apparatus.</p> <p>A non-limiting example is shown below:</p>                                                                             |

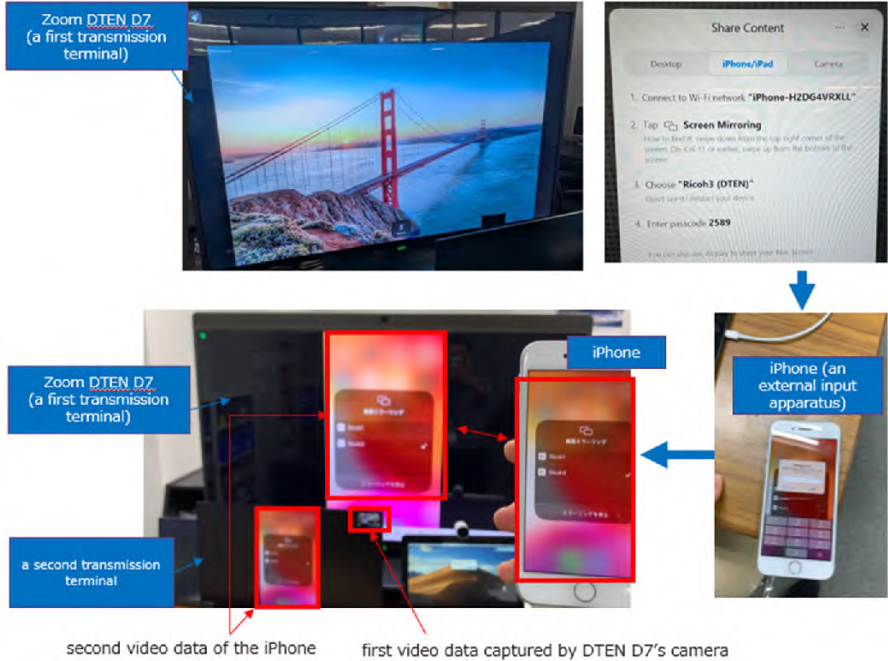


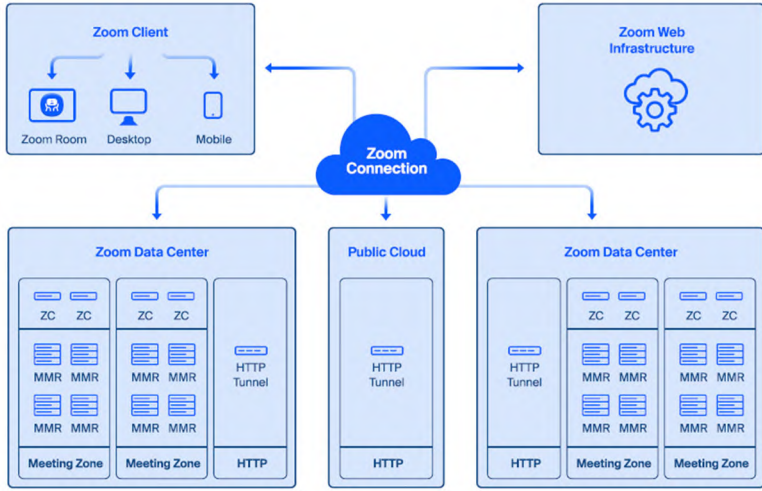
As shown in the figure above, an external input apparatus (e.g., iPhone) that has not logged into the management system (e.g., Zoom's video conference management system) is connected with the first transmission terminal (e.g., Zoom DTEN D7) during the first video data (e.g., the captured video feed by DTEN D7's camera) being displayed on a display screen of the second transmission terminal (e.g., another

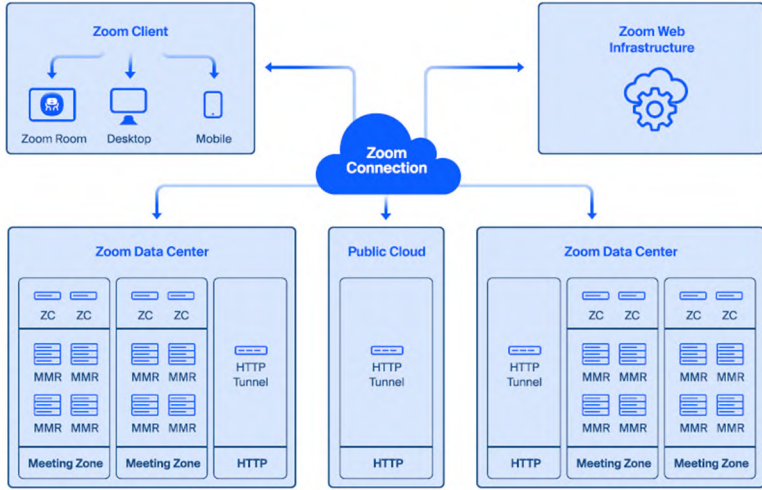
| Claims of US Patent No. 10,931,917                                                                                                                                                                          | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                             | transmission terminal), receives, from the external input apparatus (e.g., iPhone), second video data (e.g., video content displayed on the iPhone) obtained in the external input apparatus (e.g., iPhone).                                                                                                                                                                                                                                                                                                              |
| 1[g] in response to receiving the second video data, transmit the first video data and the second video data for sharing with the second transmission terminal using the established communication session. | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes processing circuitry configured to implement the Accused Instrumentality, such as Zoom Meetings and/or Zoom Rooms, in response to receiving the second video data, transmit the first video data and the second video data for sharing with the second transmission terminal using the established communication session.</p> <p>A non-limiting example is shown below:</p> |



As shown in the figure above, in response to receiving the second video data (e.g., video content displayed on the iPhone), the first transmission terminal (e.g., Zoom DTEN D7) transmits the first video data (e.g., the captured video feed by DTEN D7's camera) and the second video data (e.g., video content displayed on the iPhone) for sharing with the second transmission terminal (e.g., another transmission terminal) using the

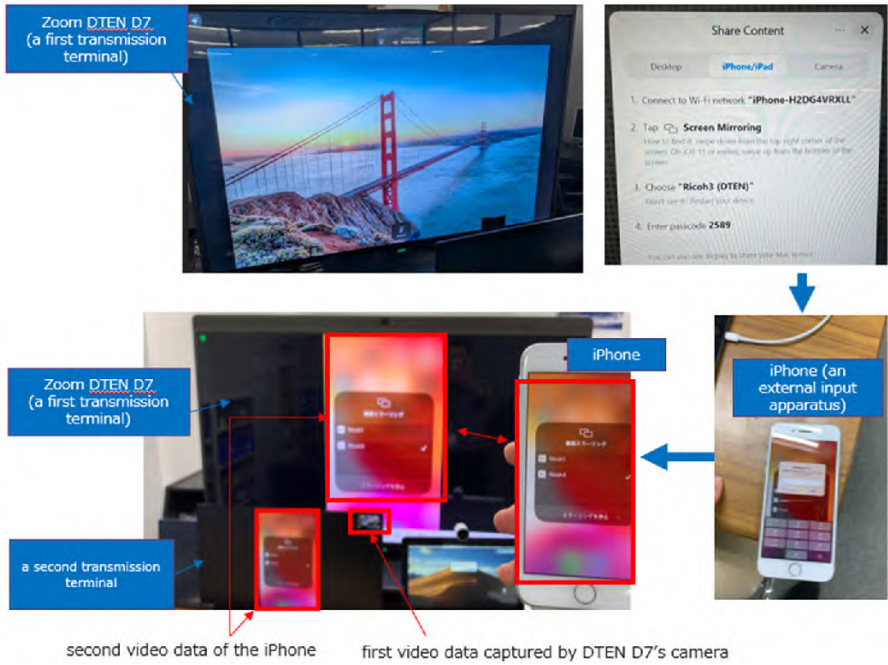
| Claims of US Patent No. 10,931,917                                                                                                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|                                                                                                                                                                                                  | <p>established communication session. A screen of the other transmission terminal displays the received first video data and the second video data from the Zoom DTEN D7 during the established video conference.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>2. The first transmission terminal according to claim 1, wherein the processing circuitry is configured to transmit the first video data and the second video data via a relay apparatus.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the first transmission terminal according to claim 1, where the processing circuitry is configured to transmit the first video data and the second video data via a relay apparatus.</p> <p>A non-limiting example is shown below:</p>  <p>The diagram illustrates the accused instrumentality setup for Zoom DTEN D7. It shows a Zoom DTEN D7 (a first transmission terminal) displaying a video of the Golden Gate Bridge. A second transmission terminal (a smartphone) is shown displaying the same video. A third smartphone (an external input apparatus) is shown displaying the same video. Arrows indicate the flow of video data: from the DTEN D7 to the second transmission terminal, and from the external input apparatus to the second transmission terminal. The second transmission terminal is labeled 'second video data of the iPhone' and 'first video data captured by DTEN D7's camera'.</p> |

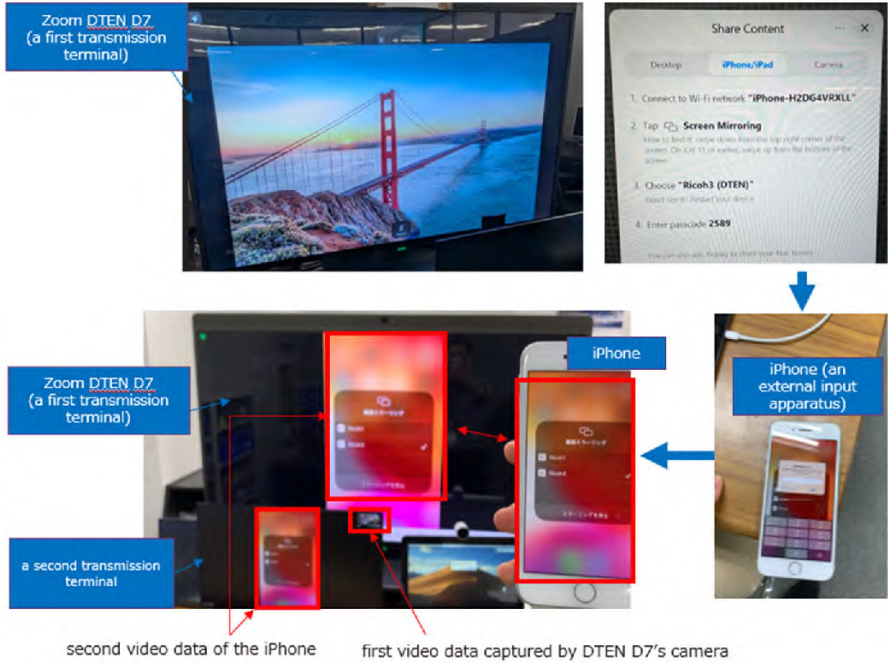
| Claims of US Patent No. 10,931,917 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                                    | <p>As shown in the figure above, the other transmission terminal receives the transmitted first video data (e.g., the captured video feed by DTEN D7's camera) and second video data (e.g., video content displayed on the iPhone) from the first transmission terminal (e.g., Zoom DTEN D7) through Zoom.</p> <p>On information and belief, the processing circuitry is configured to transmit the first video data and the second video data via a relay apparatus. For example, Zoom discloses that Zoom Multimedia Router is responsible for hosting Zoom meetings and webinars, and these servers ensure that the rich offering of voice, video, and content are properly distributed between all participants in a given session. Zoom further states that with the ideal Zoom Meeting Zone selection from the previous phase, the client then requests details of the best Zoom Multimedia Router (MMR) from the Zoom Zone Controller. Once identified, the Zoom Client reaches out to the MMR directly to establish a control channel for the session. This connection leverages a protocol developed by Zoom which communicates via SSL on port 443. <i>See</i> pages 4-5, Zoom Connection Process Whitepaper, January 2025.</p> <p><b>Core Concepts and Components</b></p> <p>Prior to diving into the process, it's important to understand the key components involved within the connection flow and their role with Zoom's architecture.</p>  <pre> graph TD     subgraph Zoom_Client [Zoom Client]         ZR[Zoom Room]         D[Desktop]         M[Mobile]     end     subgraph Zoom_Web_Infra [Zoom Web Infrastructure]         GI[Gear Icon]     end     ZC((Zoom Connection))     subgraph Zoom_Data_Center_1 [Zoom Data Center]         ZC1[ZC]         ZC2[ZC]         MMR1[MMR]         MMR2[MMR]         MMR3[MMR]         MMR4[MMR]         MT1[HTTP Tunnel]         MZ1[Meeting Zone]         MZ2[Meeting Zone]         H1[HTTP]     end     subgraph Public_Cloud [Public Cloud]         MT2[HTTP Tunnel]         H2[HTTP]     end     subgraph Zoom_Data_Center_2 [Zoom Data Center]         MT3[HTTP Tunnel]         ZC3[ZC]         ZC4[ZC]         MMR5[MMR]         MMR6[MMR]         MMR7[MMR]         MMR8[MMR]         H3[HTTP]         MZ3[Meeting Zone]         MZ4[Meeting Zone]     end     Zoom_Client &lt;--&gt; ZC     Zoom_Web_Infra &lt;--&gt; ZC     ZC --&gt; Zoom_Data_Center_1     ZC --&gt; Public_Cloud     ZC --&gt; Zoom_Data_Center_2 </pre> |

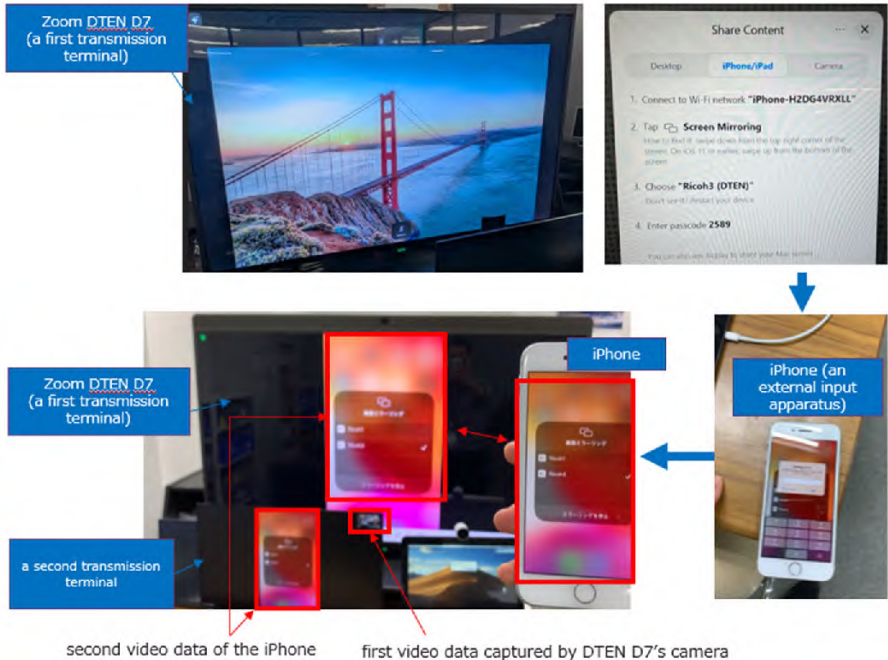
| Claims of US Patent No. 10,931,917                                                                                                                          | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                                                                                                                                                             | <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>3[a] The first transmission terminal according to claim 2, wherein</p> <p>the relay apparatus is selected from a plurality of relay apparatuses, and</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the first transmission terminal according to claim 2, where the relay apparatus is selected from a plurality of relay apparatuses.</p> <p>As shown in the figure below, the relay apparatus (e.g., MMR) is selected from a plurality of relay apparatuses in Zoom Data Center.</p> <p><b>Core Concepts and Components</b></p> <p>Prior to diving into the process, it's important to understand the key components involved within the connection flow and their role with Zoom's architecture.</p>  <p>The diagram illustrates the Zoom connection process architecture. At the top left, the 'Zoom Client' box contains icons for 'Zoom Room', 'Desktop', and 'Mobile'. At the top right is the 'Zoom Web Infrastructure' box with a cloud and gear icon. A central 'Zoom Connection' cloud icon is connected to both the Zoom Client and Zoom Web Infrastructure. Below the Zoom Connection cloud are three main components: two 'Zoom Data Center' boxes and one 'Public Cloud' box. Each Zoom Data Center box contains multiple 'ZC' (Zoom Client) and 'MMR' (Media Relay Module) icons, along with an 'HTTP Tunnel' and a 'Meeting Zone'. The Public Cloud box contains an 'HTTP Tunnel' and an 'HTTP' label.</p> |

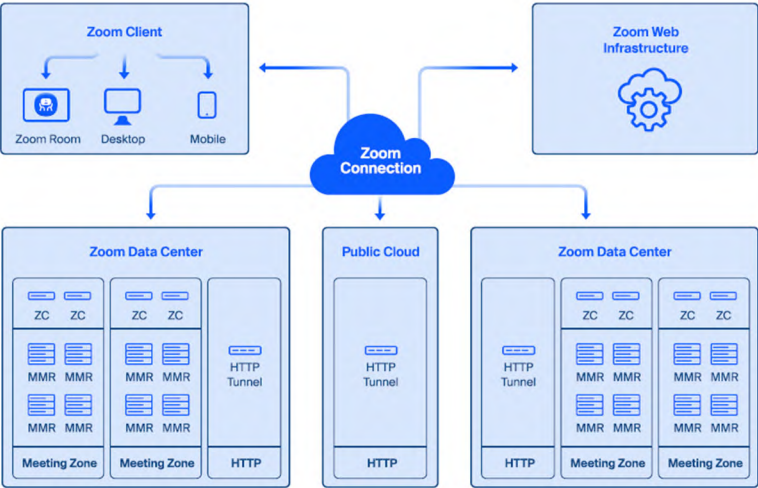
| Claims of US Patent No. 10,931,917                                                                                                                                                                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                                                                                                                                                                                                                                                            | <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p>                                                                                                     |
| <p>3[b] the processing circuitry receives, from the management system, terminal identification information for identifying another transmission terminal that has requested a start of communication from among a plurality of transmission terminals.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the first transmission terminal according to claim 2, where the processing circuitry receives, from the management system, terminal identification information for identifying another transmission terminal that has requested a start of communication from among a plurality of transmission terminals.</p> <p>A non-limiting example is shown below:</p>  |

| Claims of US Patent No. 10,931,917                                                                                                                                                                                                                                                                                           | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                                                                                                                                                                                                                                                                                                                              | <p><a href="https://www.dten.com/ko/products/dten-d7/basic-55/?srsltid=AfmBOop1uaxjfdgOXFXri-Po_cUo8joaJaMniKiBxfZBtpDTquRICjmt">https://www.dten.com/ko/products/dten-d7/basic-55/?srsltid=AfmBOop1uaxjfdgOXFXri-Po_cUo8joaJaMniKiBxfZBtpDTquRICjmt</a> (accessed on June 30, 2026)</p> <p>As shown in the figure above, the DTEN D7, with Zoom Meetings pre-installed, establishes a communication session with a plurality of transmission terminals that have requested a start of communication (e.g., video conference), which requires receiving terminal identification information that identifies another transmission terminal for the video conference.</p> <p><i>See also, e.g., supra</i> Claims 1[b] and 1[d].</p> |
| <p>4[a] The first transmission terminal according to claim 1, wherein</p> <p>the processing circuitry receives, from the external input apparatus, a request for permission to execute a program that is for obtaining data in the external input apparatus, and</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the first transmission terminal according to claim 1, where the processing circuitry receives, from the external input apparatus, a request for permission to execute a program that is for obtaining data in the external input apparatus.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                                                                                                                          |

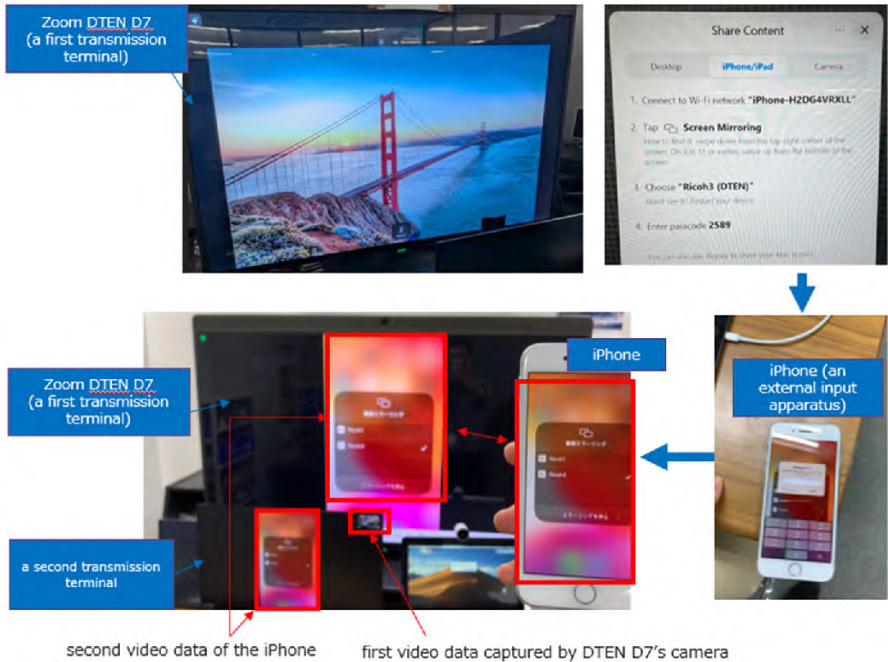
| Claims of US Patent No. 10,931,917                                                                                                                                                                                                                             | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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|                                                                                                                                                                                                                                                                |  <p>On information and belief, the DTEN D7 with Zoom Meetings pre-installed (first transmission terminal) receives a request for permission to execute a program (e.g., screen mirroring) that is for obtaining data (e.g., screen content) in the external input apparatus (e.g., iPhone).</p>                                                                                                                          |
| <p>4[b] in response to permission of the request, the program is executed in the external input apparatus, and thus, the processing circuitry receives, from the external input apparatus, the second video data obtained in the external input apparatus.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the first transmission terminal according to claim 1, where in response to permission of the request, the program is executed in the external input apparatus, and thus, the processing circuitry receives, from the external input apparatus, the second video data obtained in the external input apparatus.</p> <p><i>See also, e.g., supra</i> Claim 4[a].</p> |

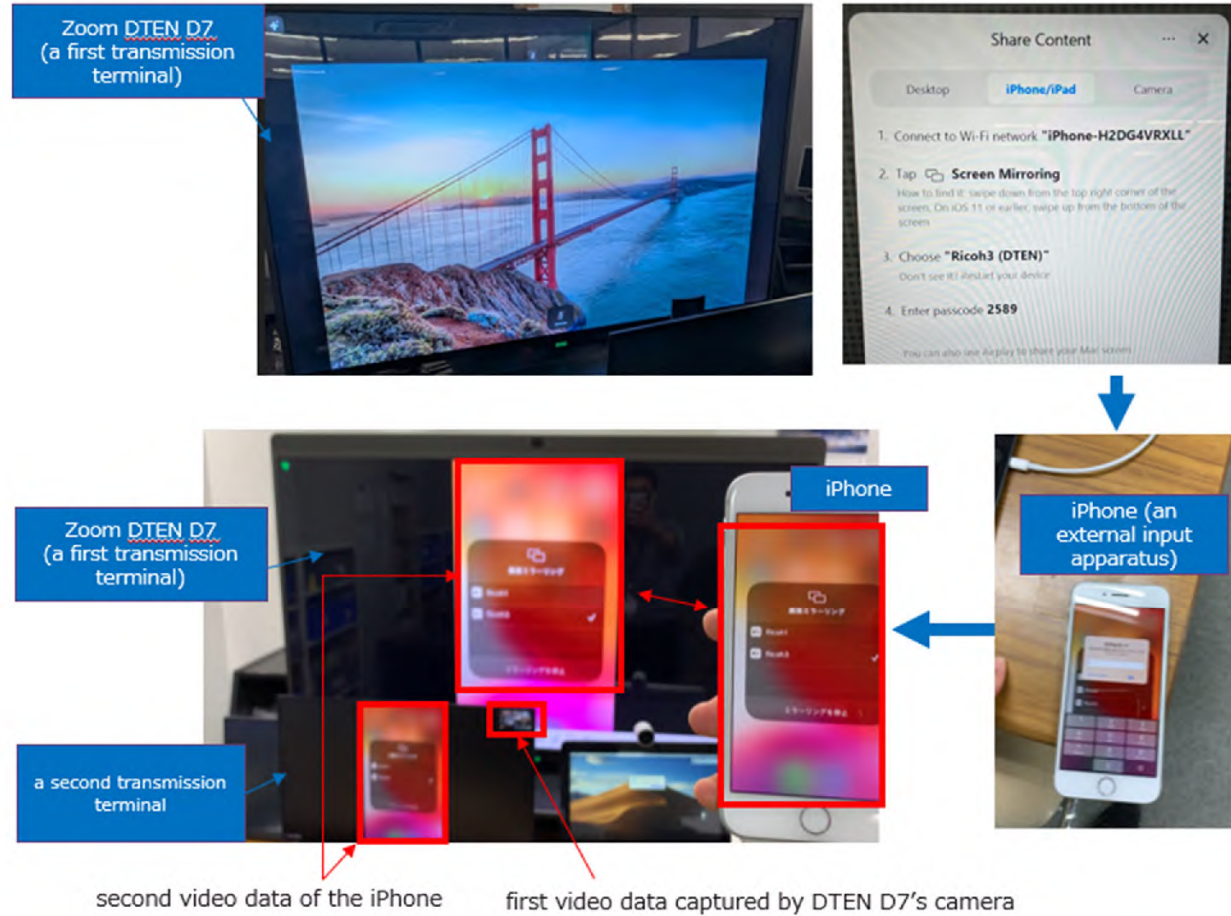
| Claims of US Patent No. 10,931,917                                                                                                                                      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                                                                                                                                                                         | <p>On information and belief, the DTEN D7 with Zoom Meetings pre-installed (first transmission terminal) receives a request for permission to execute a program (e.g., screen mirroring) that is for obtaining data (e.g., screen content) in the external input apparatus (e.g., iPhone).</p>                                                                                                                                                                                                                                                                                                                                       |
| <p>5. The first transmission terminal according to claim 4, wherein the processing circuitry is configured to transmit the program to the external input apparatus.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the first transmission terminal according to claim 4, where the processing circuitry is configured to transmit the program to the external input apparatus.</p> <p><i>See also, e.g., supra</i> Claims 4[a] and 4[b].</p>  <p>On information and belief, DTEN D7 with Zoom Meetings pre-installed, for example, is configured to transmit the program to the external input apparatus (e.g., iPhone).</p> |

| Claims of US Patent No. 10,931,917                                                                                                                                                                                                                                                                                  | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <p>6. The first transmission terminal according to claim 5, wherein</p> <p>if the program is not installed in the external input apparatus when the first transmission terminal is connected with the external input apparatus, the processing circuitry transmits the program to the external input apparatus.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the first transmission terminal according to claim 5, where if the program is not installed in the external input apparatus when the first transmission terminal is connected with the external input apparatus, the processing circuitry transmits the program to the external input apparatus.</p> <p><i>See also, e.g., supra Claims 4[a] and 4[b].</i></p>  <p>On information and belief, if the program is not installed in the external input apparatus (e.g., iPhone) when the first transmission terminal (e.g., DTEN D7 with Zoom Meetings pre-installed) is connected with the external input apparatus (e.g., iPhone), DTEN D7 transmits the program to the external input apparatus (e.g., iPhone).</p> |

| Claims of US Patent No. 10,931,917                                                                                                                                                                                                              | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <p>7[a] The first transmission terminal according to claim 1, wherein the processing circuitry is configured to receive, from the management system, information of destination candidates associated with the first transmission terminal,</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the first transmission terminal according to claim 1, where the processing circuitry is configured to receive, from the management system, information of destination candidates associated with the first transmission terminal.</p> <p>As shown in the figure below, DTEN D7 with Zoom Meetings pre-installed is configured to receive information of destination candidates (e.g., identification information) associated with the first transmission terminal (e.g., DTEN D7) through the management system (e.g., Zoom's video conference management system may include, without limitation, at least one of Zoom Web Infrastructure, Zoom Data Centers, Zoom Cloud and/or any third-party cloud services utilized by Zoom, and/or other server-side components that facilitate authentication, device management, and video conferencing services.)</p> <p><b>Core Concepts and Components</b></p> <p>Prior to diving into the process, it's important to understand the key components involved within the connection flow and their role with Zoom's architecture.</p>  <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-</a></p> |

| Claims of US Patent No. 10,931,917                                                                                                                      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                                                                                                                                                         | <a href="https://2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a> )                                                                                                                                                                                                                                                                           |
| 7[b] receive a selection from among the received information of the destination candidates, and                                                         | <p>A Zoom user’s device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the first transmission terminal according to claim 1, where the processing circuitry is configured to receive a selection from among the received information of the destination candidates.</p> <p>On information and belief, DTEN D7 is configured to receive a selection of identification information for transmission terminal candidates.</p> <p><i>See also, e.g., supra</i> Claims 1[d] and 3[b].</p> |
| 7[c] establish the communication session with the second transmission terminal corresponding to information of the thus selected destination candidate. | <p>A Zoom user’s device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the first transmission terminal according to claim 1, where the processing circuitry is configured to establish the communication session with the second transmission terminal corresponding to information of the thus selected destination candidate.</p> <p>A non-limiting example is shown below:</p>                                                                                                    |

| Claims of US Patent No. 10,931,917                                                | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                    |
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|                                                                                   |  <p>As shown in the figure above, DTEN D7, with Zoom Meetings pre-installed, is configured to establish a communication session with the second transmission terminal (e.g., another transmission terminal) corresponding to information of the thus selected destination candidate.</p> <p><i>See also, e.g., supra</i> Claims 1[b], 1[d] and 3[b].</p> |
| <p>8[pre] A method, implemented by a first transmission terminal, comprising:</p> | <p>To the extent the preamble is limiting, the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method implemented by a first transmission terminal.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                           |



The figure above illustrates a transmission terminal (e.g., DTEN D7 and/or a Zoom user's device with Zoom Meetings installed) performing a video conference with another transmission terminal.

| Claims of US Patent No. 10,931,917                                                                                                                                                                                                                                                                          | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| 8[a] obtaining first video data captured by a camera.                                                                                                                                                                                                                                                       | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method of obtaining first video data captured by a camera.</p> <p><i>See, e.g., supra</i> Claim 1[b].</p>                                                                                                                                                                                                                                                                                                  |
| 8[b] logging into a management system by transmitting a login request to the management system,                                                                                                                                                                                                             | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method of logging into a management system by transmitting a login request to the management system.</p> <p><i>See, e.g., supra</i> Claim 1[c].</p>                                                                                                                                                                                                                                                        |
| 8[c] establishing a communication session for transmitting the first video data to a second transmission terminal that has logged into the management system,                                                                                                                                               | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method of establishing a communication session for transmitting the first video data to a second transmission terminal that has logged into the management system.</p> <p><i>See, e.g., supra</i> Claim 1[d].</p>                                                                                                                                                                                          |
| 8[d] transmitting the first video data using the established communication session,                                                                                                                                                                                                                         | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method of transmitting the first video data using the established communication session.</p> <p><i>See, e.g., supra</i> Claim 1[e].</p>                                                                                                                                                                                                                                                                    |
| 8[e] when an external input apparatus that has not logged into the management system is connected with the first transmission terminal during the first video data being displayed on a display screen of the second transmission terminal, receiving, from the external input apparatus, second video data | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method that when an external input apparatus that has not logged into the management system is connected with the first transmission terminal during the first video data being displayed on a display screen of the second transmission terminal, receives, from the external input apparatus, second video data obtained in the external input apparatus.</p> <p><i>See, e.g., supra</i> Claim 1[f].</p> |

| Claims of US Patent No. 10,931,917                                                                                                                                                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                  |
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| obtained in the external input apparatus, and                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                          |
| 8[f] in response to receiving the second video data, transmitting the first video data and the second video data for sharing with the second transmission terminal using the established communication session.                                  | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method that in response to receiving the second video data, transmit the first video data and the second video data for sharing with the second transmission terminal using the established communication session.</p> <p><i>See, e.g., supra</i> Claim 1[g].</p>                                                      |
| 9. The method according to claim 8, further comprising transmitting the first video data and the second video data via a relay apparatus.                                                                                                        | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method according to claim 8, further comprising transmitting the first video data and the second video data via a relay apparatus.</p> <p><i>See, e.g., supra</i> Claim 2.</p>                                                                                                                                         |
| 10[a] The method according to claim 9, wherein the relay apparatus is selected from a plurality of relay apparatuses, and                                                                                                                        | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method according to claim 9, the relay apparatus is selected from a plurality of relay apparatuses.</p> <p><i>See, e.g., supra</i> Claim 3[a].</p>                                                                                                                                                                     |
| 10[b] the method includes receiving, from the management system, terminal identification information for identifying another transmission terminal that has requested a start of communication from among a plurality of transmission terminals. | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method according to claim 9, the method includes receiving, from the management system, terminal identification information for identifying another transmission terminal that has requested a start of communication from among a plurality of transmission terminals.</p> <p><i>See, e.g., supra</i> Claim 3[b].</p> |
| <p>11[a] The method according to claim 8, further comprising:</p> <p>receiving, from the external input apparatus, a request for permission to</p>                                                                                               | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method according to claim 8, further comprising receiving, from the external input apparatus, a request for permission to execute a program that is for obtaining data in the external input apparatus.</p>                                                                                                            |

| Claims of US Patent No. 10,931,917                                                                                                                                                                                                                                                              | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                         |
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| execute a program that is for obtaining data in the external input apparatus, and                                                                                                                                                                                                               | <i>See, e.g., supra</i> Claim 4[a].                                                                                                                                                                                                                                                                                                                                                                                             |
| 11[b] in response to permission of the request, the program is executed in the external input apparatus, and thus, the method includes receiving, from the external input apparatus, the second video data obtained in the external input apparatus.                                            | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method according to claim 8, further comprising in response to permission of the request, the program is executed in the external input apparatus, and thus, the method includes receiving, from the external input apparatus, the second video data obtained in the external input apparatus.</p> <p><i>See, e.g., supra</i> Claim 4[b].</p> |
| 12. The method to claim 11, further comprising transmitting the program to the external input apparatus.                                                                                                                                                                                        | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method according to claim 11, further comprising transmitting the program to the external input apparatus.</p> <p><i>See, e.g., supra</i> Claim 5.</p>                                                                                                                                                                                        |
| <p>13. The transmission terminal according to claim 12, further comprising:</p> <p>if the program is not installed in the external input apparatus when the transmission terminal is connected with the external input apparatus, transmitting the program to the external input apparatus.</p> | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method according to claim 12, further comprising if the program is not installed in the external input apparatus when the transmission terminal is connected with the external input apparatus, transmitting the program to the external input apparatus.</p> <p><i>See, e.g., supra</i> Claim 6.</p>                                         |
| <p>14[a] The method according to claim 8, further comprising:</p> <p>receiving, from the management system, information of destination candidates</p>                                                                                                                                           | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method according to claim 8, further comprising receiving, from the management system, information of destination candidates associated with the first transmission terminal.</p> <p><i>See, e.g., supra</i> Claim 7[a].</p>                                                                                                                  |

| Claims of US Patent No. 10,931,917                                                                                                                                                                 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| associated with the first transmission terminal;                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 14[b] receiving a selection from among the received information of the destination candidates; and                                                                                                 | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method according to claim 8, further comprising receiving a selection from among the received information of the destination candidates.</p> <p><i>See, e.g., supra</i> Claim 7[b].</p>                                                                                                                                                                                                                                                                                                                                                                                     |
| 14[c] establishing the communication session with the second transmission terminal corresponding to information of the thus selected destination candidate.                                        | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method according to claim 8, further comprising establishing the communication session with the second transmission terminal corresponding to information of the thus selected destination candidate.</p> <p><i>See, e.g., supra</i> Claim 7[c].</p>                                                                                                                                                                                                                                                                                                                        |
| 15[pre] A non-transitory computer readable medium that stores a program that when executed by a first transmission terminal causes the first transmission terminal to perform a method comprising: | <p>To the extent the preamble is limiting, the Accused Instrumentality includes one or more non-transitory computer-readable medium that stores a program that, when executed by a first transmission terminal, causes the first transmission terminal to perform a method.</p> <p>For example, the Accused Instrumentality may be downloaded, installed or pre-installed on one or more computing devices including Zoom hardware partner devices (e.g., DTEN D7) and/or a user's device, where the stored instructions are executable by the one or more computing device to perform a method.</p> <p><i>See, e.g., supra</i> Claims 1[pre] and 8[pre].</p> |
| 15[a] obtaining first video data captured by a camera,                                                                                                                                             | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method of obtaining first video data captured by a camera.</p> <p><i>See, e.g., supra</i> Claims 1[b] and 8[a].</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Claims of US Patent No. 10,931,917                                                                                                                                                                                                                                                                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15[b] logging into a management system by transmitting a login request to the management system,                                                                                                                                                                                                                                                           | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method of logging into a management system by transmitting a login request to the management system.</p> <p><i>See, e.g., supra</i> Claims 1[c] and 8[b].</p>                                                                                                                                                                                                                                                        |
| 15[c] establishing a communication session for transmitting the first video data to a second transmission terminal that has logged into the management system,                                                                                                                                                                                             | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method of establishing a communication session for transmitting the first video data to a second transmission terminal that has logged into the management system.</p> <p><i>See, e.g., supra</i> Claims 1[d] and 8[c].</p>                                                                                                                                                                                          |
| 15[d] transmitting the first video data using the established communication session,                                                                                                                                                                                                                                                                       | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method of transmitting the first video data using the established communication session.</p> <p><i>See, e.g., supra</i> Claims 1[e] and 8[d].</p>                                                                                                                                                                                                                                                                    |
| 15[e] when an external input apparatus that has not logged into the management system is connected with the first transmission terminal during the first video data being displayed on a display screen of the second transmission terminal, receiving, from the external input apparatus, second video data obtained in the external input apparatus, and | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method that when an external input apparatus that has not logged into the management system is connected with the first transmission terminal during the first video data being displayed on a display screen of the second transmission terminal, receives, from the external input apparatus, second video data obtained in the external input apparatus.</p> <p><i>See, e.g., supra</i> Claims 1[f] and 8[e].</p> |
| 15[f] in response to receiving the second video data, transmitting the first video data and the second video data for sharing with the second transmission terminal using the established communication session.                                                                                                                                           | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method that in response to receiving the second video data, transmit the first video data and the second video data for sharing with the second transmission terminal using the established communication session.</p> <p><i>See, e.g., supra</i> Claims 1[g] and 8[f].</p>                                                                                                                                          |

# Exhibit D

**Exhibit D**  
**Infringement Claim Chart for U.S. Patent No. 11,256,464**

Ricoh Company, Ltd. (“Ricoh”) provides evidence of infringement of claims 1-10 of U.S. Patent No. 11,256,464 (hereinafter “the ’464 Patent”) by Defendant Zoom Communications, Inc. f/k/a Zoom Video Communications, Inc. (“Zoom”). In support thereof, Ricoh provides the following claim chart. “Accused Instrumentality” as used herein refers to Zoom’s video conferencing products and services, including but not limited to, Zoom Meetings, Zoom Rooms, Zoom Sessions, and Zoom Webinar, and associated software and accessories.

This claim chart demonstrates Zoom’s infringement and provides notice of such infringement, by comparing each element of the asserted claim to corresponding components, aspects, and/or features of the Accused Instrumentality. This claim chart is not intended to constitute an expert report on infringement. This claim chart includes information provided by way of example, and not by way of limitation.

Zoom has not produced any documents requested in discovery, including its core technical documents, to enable Ricoh to properly analyze and identify all Accused Instrumentality, associated functionalities, and related Zoom software. An analysis of Zoom’s (or other third parties’) technical documentation and/or software source code may assist in fully identifying all infringing features and functionality. Accordingly, Ricoh reserves the right to supplement this infringement analysis once such information is made available to Ricoh. Furthermore, Ricoh reserves the right to revise this infringement analysis, as appropriate, upon issuance of a court order construing any terms recited in the claims of the ’464 Patent.

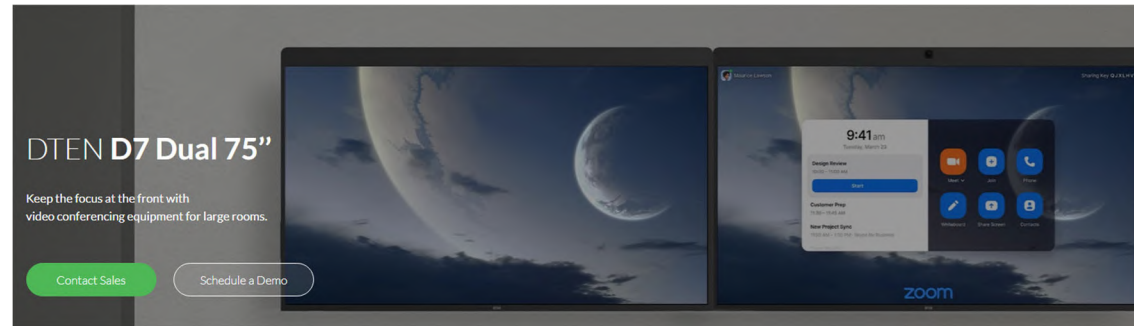
Unless otherwise noted, Ricoh contends that Zoom directly infringes the ’464 Patent in violation of 35 U.S.C. § 271(a) by selling, offering to sell, making, using, and/or importing the Accused Instrumentality. The following exemplary analysis demonstrates that infringement. Unless otherwise noted, Ricoh further contends that the evidence below supports a finding of indirect infringement under 35 U.S.C. §§ 271(b) and/or (c), in conjunction with other evidence of liability under one or more of those subsections. Zoom makes, uses, sells, imports, or offers for sale in the United States, or has made, used, sold, imported, or offered for sale in the past, without authority, or induces others to make, use, sell, import, or offer for sale in the United States, or has induced others to make, use, sell, import, or offer for sale in the past, without authority, products, equipment, or services that infringe claims 1-10 of the ’464 Patent, including without limitation, the Accused Instrumentality.

Unless otherwise noted, Ricoh believes and contends that each element of the claims asserted herein is literally met through Zoom’s provision of the Accused Instrumentality. However, to the extent that Zoom attempts to allege that any asserted claim element is not literally met, Ricoh believes and contends that such elements are met under the doctrine of equivalents. More specifically, in its investigation and analysis of the Accused Instrumentality, Ricoh did not identify any substantial differences between the elements of the patent claims and the corresponding features of the Accused Instrumentality, as set forth herein. In each instance, the identified feature of the Accused Instrumentality performs at least substantially the same function in substantially the same way to achieve substantially the same result as the corresponding claim element. In the event that a claim element is deemed to be missing under a literal infringement analysis (e.g., due to the Court’s claim construction), Plaintiff reserves the right to demonstrate the presence of a substantial equivalent of such an element and to pursue infringement under the Doctrine of Equivalents.

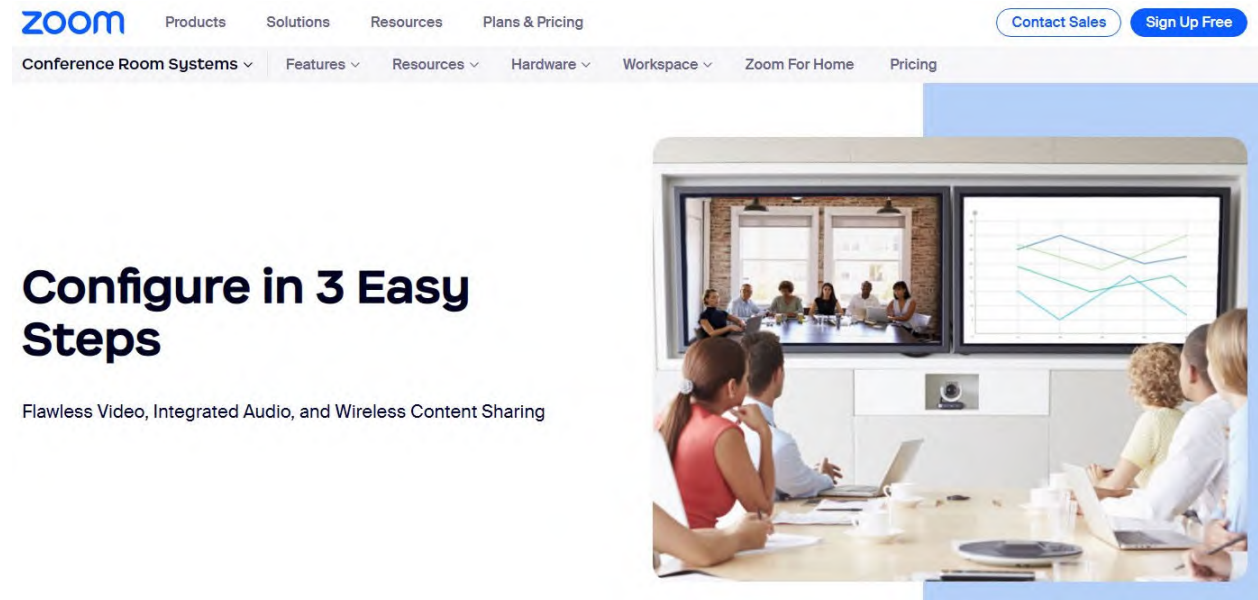
To the extent the chart of an asserted claim relies on evidence about certain specifically identified Accused Instrumentality, Ricoh asserts that, on information and belief, any similarly functioning products or instrumentalities also infringe the charted claim. Ricoh reserves the right to amend this infringement analysis based on other products made, used, sold, imported, or offered for sale by Zoom. Ricoh also reserves the right to amend this infringement analysis to chart other claims of the '464 Patent, not listed in the claim chart, that are infringed by the Accused Instrumentality. Ricoh further reserves the right to amend this infringement analysis by adding, subtracting, or otherwise modifying content in the Accused Instrumentality.

All infringement contentions set forth herein for any independent patent claims are hereby incorporated by reference into the infringement contentions alleged for any dependent claims that depend on independent claims, as if fully set forth herein.

| Claims of US Patent No. 11,256,464                                                                                                                          | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1[pre] A communication device connected to an image capturing apparatus, a first display, and a second display, the communication device comprising:</p> | <p>To the extent preamble is limiting, a communication device that incorporates the Accused Instrumentality directly infringes claim 1 of the '464 Patent. For example, Zoom hardware partner device, such as the DTEN D7, and/or Zoom user's device such as a desktop, laptop, tablet, or other electronic device is a communication device that incorporates the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms.</p> <p>A non-limiting example is shown below:</p> <p>The <b>DTEN D7</b> is a complete <b>ZOOM</b> Rooms TOUCH conferencing installation, including all hardware and software. The built-in, AI enhanced, 16 element microphone array with 4K camera, offers a best-in-class conferencing, wireless, screen sharing, and white boarding experience. <i>(All software is pre-installed.)</i></p> <p><a href="https://help.dten.com/hc/en-us/article_attachments/900006433903">https://help.dten.com/hc/en-us/article_attachments/900006433903</a> (accessed on July 9, 2025).</p> <p>DTEN D7 has a touchscreen, integrated PC, microphone, speaker, HD camera, and Zoom Meetings for Touch pre-installed.</p> <p><a href="https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0063196">https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0063196</a> (accessed July 9, 2025).</p> <p>A communication device such as DTEN D7 (e.g., D7 Dual 75") and/or a Zoom user's device with the Accused Instrumentality (e.g., Zoom Rooms software) installed is connected to an image capturing apparatus (e.g., camera), a first display, and a second display.</p> |



[https://www.dten.com/products/dten-d7/dual-75/?srsltid=AfmBOoqOXKh8uTWwXW7kTA7T\\_i0wGKRqW6nrt\\_1nnx8QscL4PnWCfW9o](https://www.dten.com/products/dten-d7/dual-75/?srsltid=AfmBOoqOXKh8uTWwXW7kTA7T_i0wGKRqW6nrt_1nnx8QscL4PnWCfW9o) (accessed July 7, 2026)



| Claims of US Patent No. 11,256,464 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <a href="https://www.zoom.com/en/products/meeting-rooms/resources/configuration/">https://www.zoom.com/en/products/meeting-rooms/resources/configuration/</a> (accessed on July 7, 2026)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1[a] a transceiver to              | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes a transceiver.</p> <p>By way of a non-limiting example, DTEN D7 is provided with a transceiver to communicate with other communication devices for a video conference.</p> <p>The <b>DTEN D7</b> is a complete <b>ZOOM</b> Rooms TOUCH conferencing installation, including all hardware and software. The built-in, AI enhanced, 16 element microphone array with 4K camera, offers a best-in-class conferencing, wireless, screen sharing, and white boarding experience. <i>(All software is pre-installed.)</i></p> |

Claims of US Patent No. 11,256,464

ACCUSED INSTRUMENTALITY



55" DTEN D7

SPECIFICATIONS

All-in-One Video  
Conferencing for Face to Face  
Meeting Experience



\*D7 in this image is not in 1:1 ratio



| Claims of US Patent No. 11,256,464 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|----------|----------------------------------|---------------|----------------------------------------------------------------------------------------|---------|------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------|--------------------|------------------------------------------------|----------------|-----------------|--------------------|---------------------------------------|----------------|---------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------|--------------------|--------------------|--------------------------|-----------------------------------------------------------|
|                                    | <table><tr><td>PRODUCT</td><td>D7 55"</td></tr><tr><td>SOFTWARE</td><td>DTEN D7 OS, provisioned by D7 OS</td></tr><tr><td>ALL-IN-ONE D7</td><td>LED 55" Multi-Touch Display<br/>4K Camera<br/>16-Microphone Array<br/>Integrated Speakers</td></tr><tr><td>DISPLAY</td><td>LED 75" , 4K , 16:9<br/>Capacitive Touch Screen</td></tr><tr><td>CAMERA SYSTEM</td><td>Fixed Lens, Infinite Focus<br/>F-value: 2.8<br/>4K<br/>Diagonal Field of View (FOV): 86 Degrees<br/>Unit Mounted Tilt: 15 Degrees</td></tr><tr><td>AUDIO SYSTEM</td><td>16 Elements Microphone Array<br/>Integrated 2-Channel Stereo Speakers<br/>High Quality 20-kHz Audio<br/>Zoom Rooms Acoustic Echo Cancellation<br/>Automatic Gain Control (AGC)<br/>Automatic Noise Reduction</td></tr><tr><td>NETWORK</td><td>Ethernet (RJ-45) 100/1000 Mbps<br/>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br/>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br/>HTTP Proxy Support</td></tr></table> | PRODUCT | D7 55" | SOFTWARE | DTEN D7 OS, provisioned by D7 OS | ALL-IN-ONE D7 | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers | DISPLAY | LED 75" , 4K , 16:9<br>Capacitive Touch Screen | CAMERA SYSTEM | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees | AUDIO SYSTEM | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction | NETWORK | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support | <table><tr><td>INPUTS AND OUTPUTS</td><td>HDMI Out x 1<br/>USB 3.0 x 1<br/>3.5-mm Audio Jack x 1<br/>Microphone x 1<br/>Ethernet LAN (RJ45) x 1</td></tr><tr><td>POWER</td><td>Auto-Sensing Power Supply<br/>100 to 240 VAC, 50 to 60 Hz</td></tr><tr><td>PRODUCT DIMENSIONS</td><td>49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)</td></tr><tr><td>PRODUCT WEIGHT</td><td>50.7 lb (23 kg)</td></tr><tr><td>PACKAGE DIMENSIONS</td><td>56 x 36 x 8.5 in (142 x 92 x 21.5 cm)</td></tr><tr><td>PACKAGE WEIGHT</td><td>77 lb (35 kg)</td></tr><tr><td>OPERATING TEMPERATURE AND HUMIDITY</td><td>Operating Temperature 0°C to 40°C<br/>Storage Temperature -10°C to 60°C<br/>Operating Humidity 20% to 80% RH<br/>Storage Humidity 10% to 60% RH</td></tr><tr><td>LANGUAGE SUPPORT</td><td>English<br/>* Additional languages to be supported in future software release</td></tr><tr><td>SYSTEM REQUIREMENT</td><td>Zoom Rooms License</td></tr><tr><td>APPROVALS AND COMPLIANCE</td><td>FCC, CE, CCC, ROHS, ACMA, CB<br/>PSE, TELEC, BIS (Pending)</td></tr></table> | INPUTS AND OUTPUTS | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1 | POWER | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz | PRODUCT DIMENSIONS | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm) | PRODUCT WEIGHT | 50.7 lb (23 kg) | PACKAGE DIMENSIONS | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm) | PACKAGE WEIGHT | 77 lb (35 kg) | OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH | LANGUAGE SUPPORT | English<br>* Additional languages to be supported in future software release | SYSTEM REQUIREMENT | Zoom Rooms License | APPROVALS AND COMPLIANCE | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending) |
| PRODUCT                            | D7 55"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| SOFTWARE                           | DTEN D7 OS, provisioned by D7 OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| ALL-IN-ONE D7                      | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| DISPLAY                            | LED 75" , 4K , 16:9<br>Capacitive Touch Screen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| CAMERA SYSTEM                      | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| AUDIO SYSTEM                       | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| NETWORK                            | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| INPUTS AND OUTPUTS                 | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| POWER                              | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PRODUCT DIMENSIONS                 | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PRODUCT WEIGHT                     | 50.7 lb (23 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PACKAGE DIMENSIONS                 | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PACKAGE WEIGHT                     | 77 lb (35 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| LANGUAGE SUPPORT                   | English<br>* Additional languages to be supported in future software release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| SYSTEM REQUIREMENT                 | Zoom Rooms License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| APPROVALS AND COMPLIANCE           | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
|                                    | <a href="https://help.dten.com/hc/en-us/article_attachments/900006433903">https://help.dten.com/hc/en-us/article_attachments/900006433903</a> (accessed on July 9, 2025).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |



[https://www.dten.com/ko/products/dten-d7/basic-55/?srsltid=AfmBOop1uaxjfdgOXFXri-Po\\_cUo8joaJaMniKiBxfZBtpDTquRICjmt](https://www.dten.com/ko/products/dten-d7/basic-55/?srsltid=AfmBOop1uaxjfdgOXFXri-Po_cUo8joaJaMniKiBxfZBtpDTquRICjmt) (accessed on June 30, 2026)

As shown in the figure above, DTEN D7 operates with Zoom Rooms software to conduct a video conference and therefore includes a transceiver configured to communicate with other communication devices, such as video conferencing terminals.

Non-limiting examples of Zoom user's devices such as desktop computers, laptops, and mobile devices (regardless of hardware brand) are shown below:

**Claims of US Patent No. 11,256,464**

**ACCUSED INSTRUMENTALITY**



<https://wigatos.com/22172-cara-zoom-meeting-di-laptop/> (accessed on July 7, 2026).



<https://dailybruin.com/2024/04/23/research-reveals-delaying-in-person-medical-residency-visits-can-reduce-inequities> (accessed on July 7, 2026).

| Claims of US Patent No. 11,256,464                                                                    | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                       |  <p><a href="https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/">https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/</a> (accessed on July 7, 2026).</p> <p>On information and belief, Zoom supplies its proprietary software that, upon activation, engagement, or use by any user or operator, takes functional control of the underlying hardware on which it runs, regardless of the make, brand, or original configuration of that hardware. Once Zoom’s software is installed and activated, the host device—whether a desktop computer, laptop, tablet, smartphone, conference room system such as DTEN D7, or other computing device—ceases to function as a general-purpose machine with respect to the claimed functionalities and instead operates as a Zoom special purpose computer: a device that is directed, managed, and/or controlled by Zoom’s proprietary software to perform the specific functions of video conferencing. Accordingly, the Accused Instrumentalities encompass not only Zoom’s software but also any hardware device on which Zoom’s software is activated, engaged, or used, as such devices become a Zoom special purpose computer for purposes of the infringing acts described herein.</p> |
| 1[b] transmit data of a first captured image captured by the image capturing apparatus via a network; | <p>A Zoom user’s device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes a transceiver to transmit data of a first captured image captured by the image capturing apparatus via a network.</p> <p>By way of a non-limiting example, DTEN D7 (e.g., D7 Dual 75”) is an all-in-one video conferencing and collaboration solution equipped with a touchscreen(s), integrated PC, HD camera and network interface for</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Claims of US Patent No. 11,256,464 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p>communicating with another communication device via a network. DTEN D7 has an integrated 4K camera to capture image.</p> <p>The <b>DTEN D7</b> is a complete <b>ZOOM</b> Rooms TOUCH conferencing installation, including all hardware and software. The built-in, AI enhanced, 16 element microphone array with 4K camera, offers a best-in-class conferencing, wireless, screen sharing, and white boarding experience. <i>(All software is pre-installed.)</i></p> |

Claims of US Patent No. 11,256,464

ACCUSED INSTRUMENTALITY



55" DTEN D7

SPECIFICATIONS

All-in-One Video  
Conferencing for Face to Face  
Meeting Experience



\*D7 in this image is not in 1:1 ratio



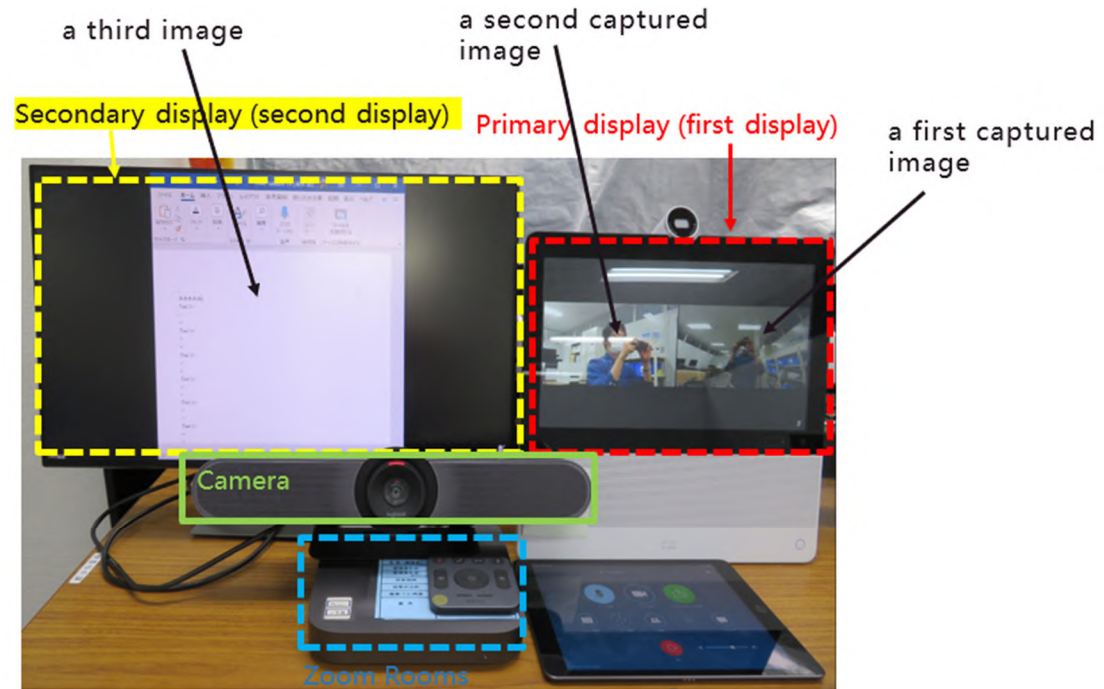
| Claims of US Patent No. 11,256,464 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|----------|----------------------------------|---------------|----------------------------------------------------------------------------------------|---------|------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------|--------------------|------------------------------------------------|----------------|-----------------|--------------------|---------------------------------------|----------------|---------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------|--------------------|--------------------|--------------------------|-----------------------------------------------------------|
|                                    | <table><tr><td>PRODUCT</td><td>D7 55"</td></tr><tr><td>SOFTWARE</td><td>DTEN D7 OS, provisioned by D7 OS</td></tr><tr><td>ALL-IN-ONE D7</td><td>LED 55" Multi-Touch Display<br/>4K Camera<br/>16-Microphone Array<br/>Integrated Speakers</td></tr><tr><td>DISPLAY</td><td>LED 75" , 4K , 16:9<br/>Capacitive Touch Screen</td></tr><tr><td>CAMERA SYSTEM</td><td>Fixed Lens, Infinite Focus<br/>F-value: 2.8<br/>4K<br/>Diagonal Field of View (FOV): 86 Degrees<br/>Unit Mounted Tilt: 15 Degrees</td></tr><tr><td>AUDIO SYSTEM</td><td>16 Elements Microphone Array<br/>Integrated 2-Channel Stereo Speakers<br/>High Quality 20-kHz Audio<br/>Zoom Rooms Acoustic Echo Cancellation<br/>Automatic Gain Control (AGC)<br/>Automatic Noise Reduction</td></tr><tr><td>NETWORK</td><td>Ethernet (RJ-45) 100/1000 Mbps<br/>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br/>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br/>HTTP Proxy Support</td></tr></table> | PRODUCT | D7 55" | SOFTWARE | DTEN D7 OS, provisioned by D7 OS | ALL-IN-ONE D7 | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers | DISPLAY | LED 75" , 4K , 16:9<br>Capacitive Touch Screen | CAMERA SYSTEM | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees | AUDIO SYSTEM | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction | NETWORK | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support | <table><tr><td>INPUTS AND OUTPUTS</td><td>HDMI Out x 1<br/>USB 3.0 x 1<br/>3.5-mm Audio Jack x 1<br/>Microphone x 1<br/>Ethernet LAN (RJ45) x 1</td></tr><tr><td>POWER</td><td>Auto-Sensing Power Supply<br/>100 to 240 VAC, 50 to 60 Hz</td></tr><tr><td>PRODUCT DIMENSIONS</td><td>49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)</td></tr><tr><td>PRODUCT WEIGHT</td><td>50.7 lb (23 kg)</td></tr><tr><td>PACKAGE DIMENSIONS</td><td>56 x 36 x 8.5 in (142 x 92 x 21.5 cm)</td></tr><tr><td>PACKAGE WEIGHT</td><td>77 lb (35 kg)</td></tr><tr><td>OPERATING TEMPERATURE AND HUMIDITY</td><td>Operating Temperature 0°C to 40°C<br/>Storage Temperature -10°C to 60°C<br/>Operating Humidity 20% to 80% RH<br/>Storage Humidity 10% to 60% RH</td></tr><tr><td>LANGUAGE SUPPORT</td><td>English<br/>* Additional languages to be supported in future software release</td></tr><tr><td>SYSTEM REQUIREMENT</td><td>Zoom Rooms License</td></tr><tr><td>APPROVALS AND COMPLIANCE</td><td>FCC, CE, CCC, ROHS, ACMA, CB<br/>PSE, TELEC, BIS (Pending)</td></tr></table> | INPUTS AND OUTPUTS | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1 | POWER | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz | PRODUCT DIMENSIONS | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm) | PRODUCT WEIGHT | 50.7 lb (23 kg) | PACKAGE DIMENSIONS | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm) | PACKAGE WEIGHT | 77 lb (35 kg) | OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH | LANGUAGE SUPPORT | English<br>* Additional languages to be supported in future software release | SYSTEM REQUIREMENT | Zoom Rooms License | APPROVALS AND COMPLIANCE | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending) |
| PRODUCT                            | D7 55"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| SOFTWARE                           | DTEN D7 OS, provisioned by D7 OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| ALL-IN-ONE D7                      | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| DISPLAY                            | LED 75" , 4K , 16:9<br>Capacitive Touch Screen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| CAMERA SYSTEM                      | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| AUDIO SYSTEM                       | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| NETWORK                            | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| INPUTS AND OUTPUTS                 | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| POWER                              | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PRODUCT DIMENSIONS                 | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PRODUCT WEIGHT                     | 50.7 lb (23 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PACKAGE DIMENSIONS                 | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PACKAGE WEIGHT                     | 77 lb (35 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| LANGUAGE SUPPORT                   | English<br>* Additional languages to be supported in future software release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| SYSTEM REQUIREMENT                 | Zoom Rooms License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| APPROVALS AND COMPLIANCE           | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
|                                    | <a href="https://help.dten.com/hc/en-us/article_attachments/900006433903">https://help.dten.com/hc/en-us/article_attachments/900006433903</a> (accessed on July 9, 2025).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |



[https://www.dten.com/ko/products/dten-d7/basic-55/?srsltid=AfmBOop1uaxjfdgOXFXri-Po\\_cUo8joaJaMniKiBxfZBtpDTquRICjmt](https://www.dten.com/ko/products/dten-d7/basic-55/?srsltid=AfmBOop1uaxjfdgOXFXri-Po_cUo8joaJaMniKiBxfZBtpDTquRICjmt) (accessed on June 30, 2026)

As shown in the figure above, DTEN D7, with Zoom Meetings pre-installed, is configured to transmit data of a first captured image (e.g., video image of the local user seated at the desk) captured by the image capturing apparatus (e.g., its integrated 4K camera) via a network.

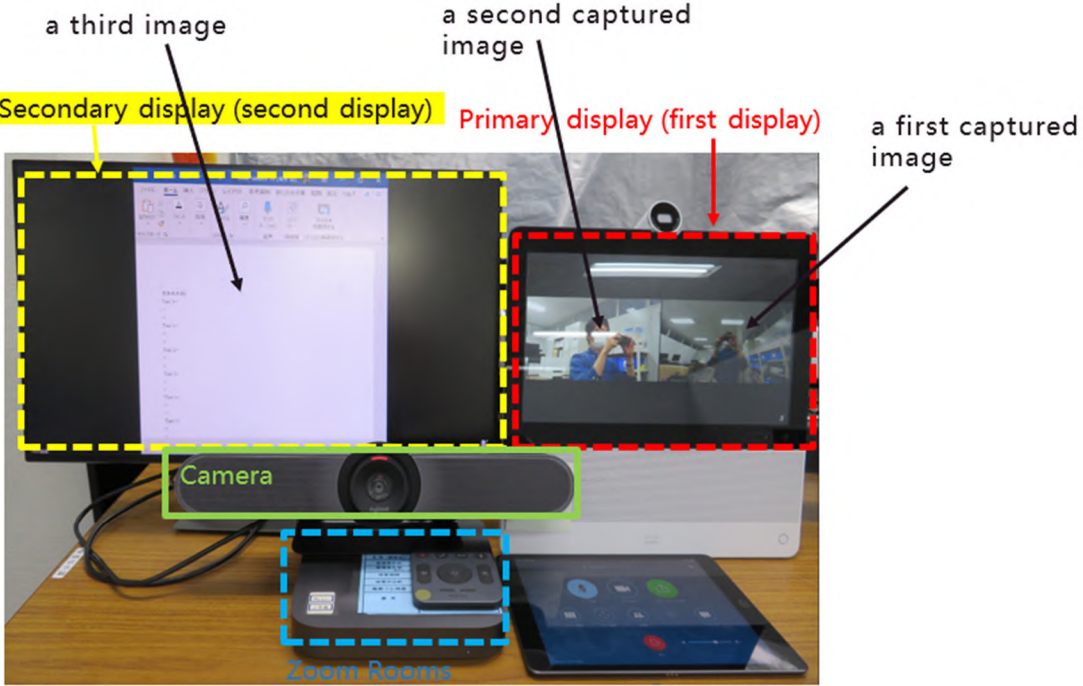
Another non-limiting example is shown below:

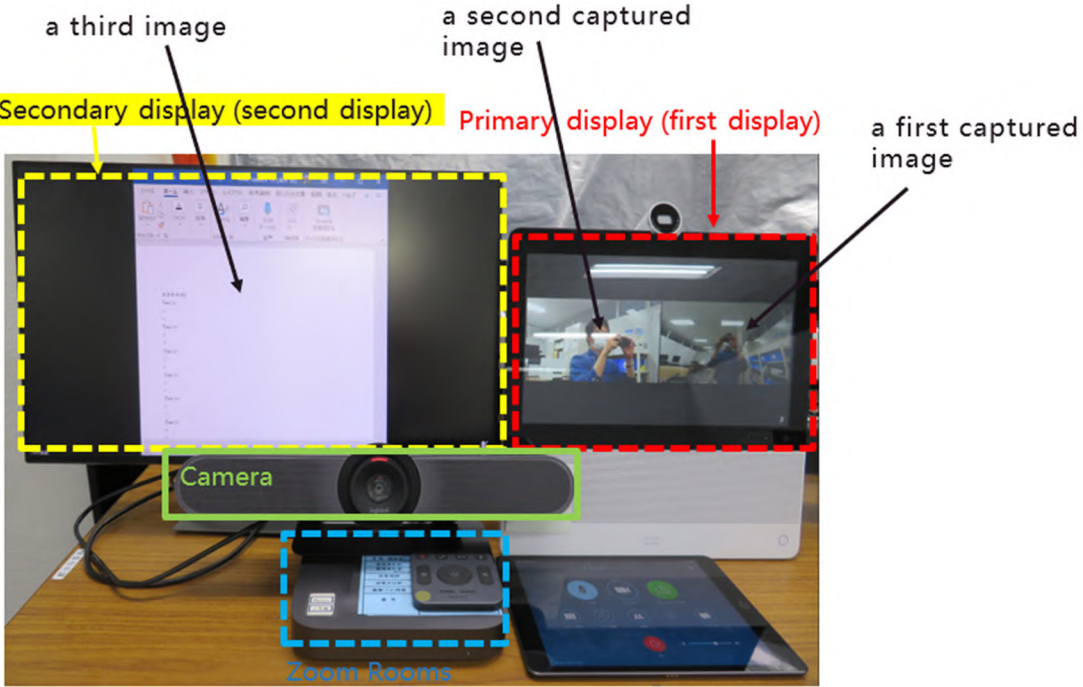


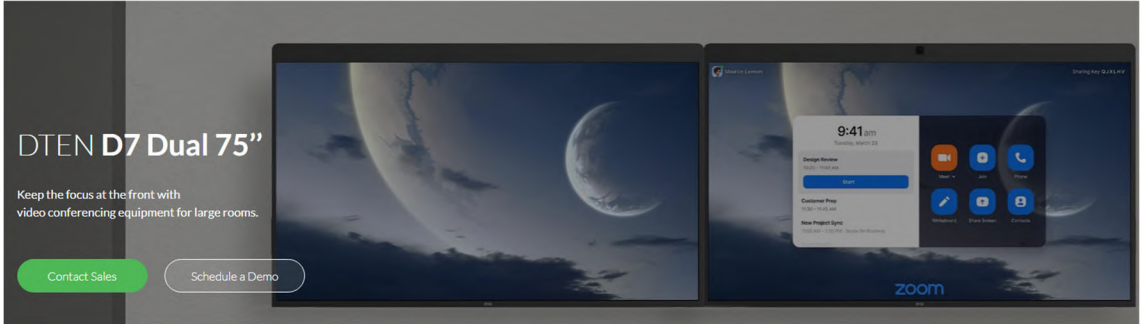
Start sharing

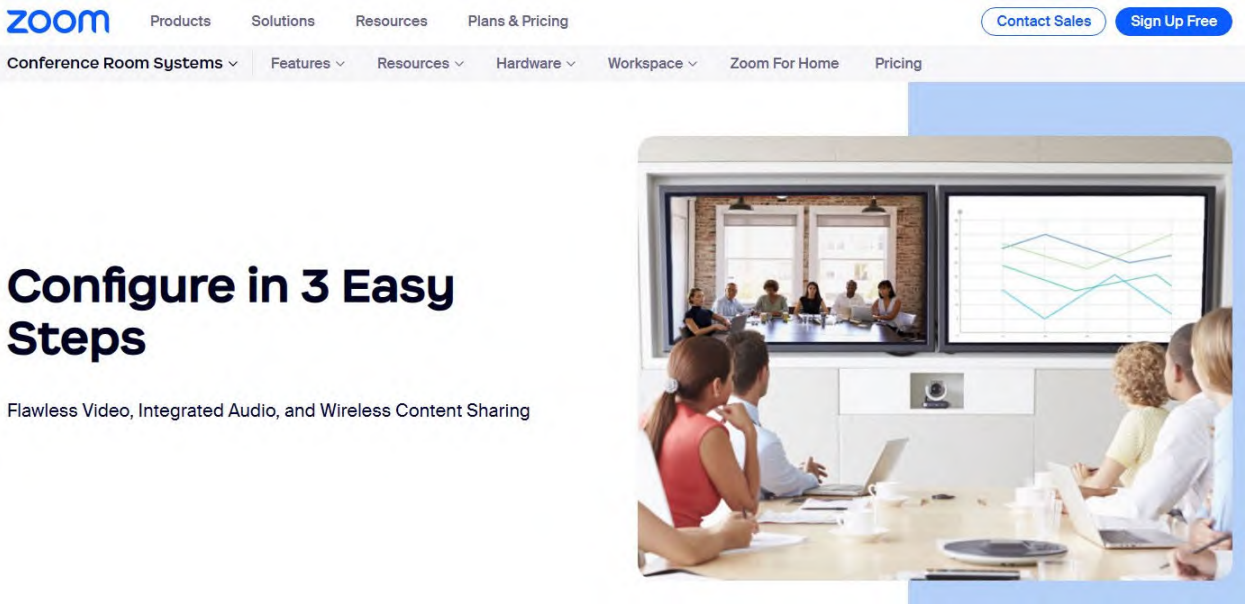
As shown in the figure immediately above, a user device with Zoom Rooms software installed is connected to a first display (e.g., primary display) and a second display (e.g., secondary display). A video conference is taking place between the Zoom Rooms (e.g., the user device at a local site) and another communication device (e.g., at a remote site) (not shown in the figure). The primary display displays a first captured image (e.g., an image captured by the camera at the local site) that is transmitted to the other communication device via a network.

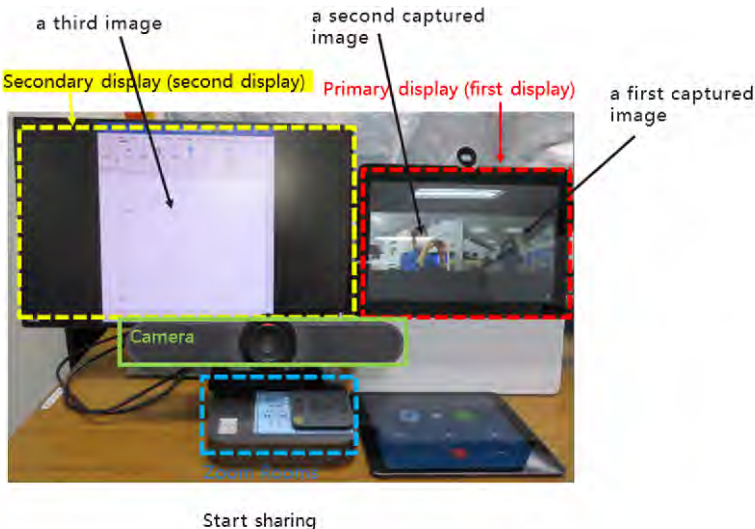
| Claims of US Patent No. 11,256,464                                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <p>1[c] receive data of a second captured image via the network; and</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes a transceiver to receive data of a second captured image via the network.</p> <p>By way of a non-limiting example, DTEN D7 (e.g., D7 Dual 75") is an all-in-one video conferencing and collaboration solution equipped with a touchscreen(s), integrated PC, HD camera and network inface for communicating with another communication device via a network.</p>  <p><a href="https://www.dten.com/ko/products/dten-d7/basic-55/?srsltid=AfmBOop1uaxjfdgOXXFri-Po_cUo8joaJaMniKiBxfZBtpDTquRICjmt">https://www.dten.com/ko/products/dten-d7/basic-55/?srsltid=AfmBOop1uaxjfdgOXXFri-Po_cUo8joaJaMniKiBxfZBtpDTquRICjmt</a> (accessed on June 30, 2026)</p> <p>As shown in the figure above, DTEN D7, with Zoom Rooms software pre-installed, is configured to receive data of a second captured image (e.g., a video image of a video conference participant at a remote site) via the network.</p> |

| Claims of US Patent No. 11,256,464                                                                                                                                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|                                                                                                                                                                          | <p>Another non-limiting example is shown below:</p>  <p>As shown in the figure immediately above, the primary display of the user device with Zoom Rooms software installed displays a second captured image (e.g., a captured image of a video conference participant at the remote site) that is received from the other communication device via the network.</p> |
| <p>1[d] receive data of a third image that is displayed on a display of another communication device via the network, the third image being different than the first</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes a transceiver to receive data of a third image that is displayed on a display of</p>                                                                                                                                                                                                                      |

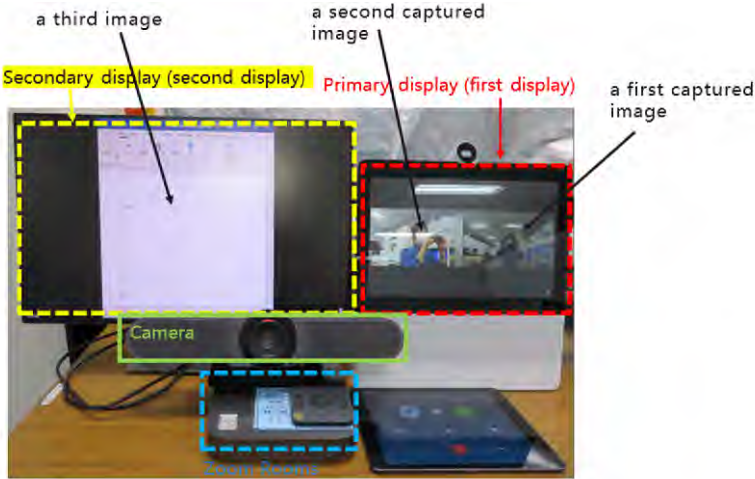
| Claims of US Patent No. 11,256,464                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <p>captured image and the second captured image; and</p> | <p>another communication device via the network, the third image being different than the first captured image and the second captured image.</p> <p>A non-limiting example is shown below:</p>  <p>The diagram illustrates a video conference setup. A laptop (user device) is shown with a 'Secondary display (second display)' highlighted in yellow, displaying a 'third image' (a shared screen). A 'Zoom Rooms' unit is shown below the laptop, with a 'Camera' highlighted in green. A 'Primary display (first display)' is highlighted in red, showing a 'first captured image' of a person. A 'second captured image' is also indicated. The text 'Start sharing' is at the bottom of the diagram.</p> <p>As shown in the figure immediately above, a video conference is taking place between the Zoom Rooms (e.g., the user device at a local site) and another communication device (e.g., at a remote site) (not shown in the figure). The secondary display of the user device with Zoom Rooms software installed displays a third image (e.g., a shared screen from the other communication device) that is displayed on a display of the other communication device. Indeed, the third image (e.g., the shared screen from the other communication device)</p> |

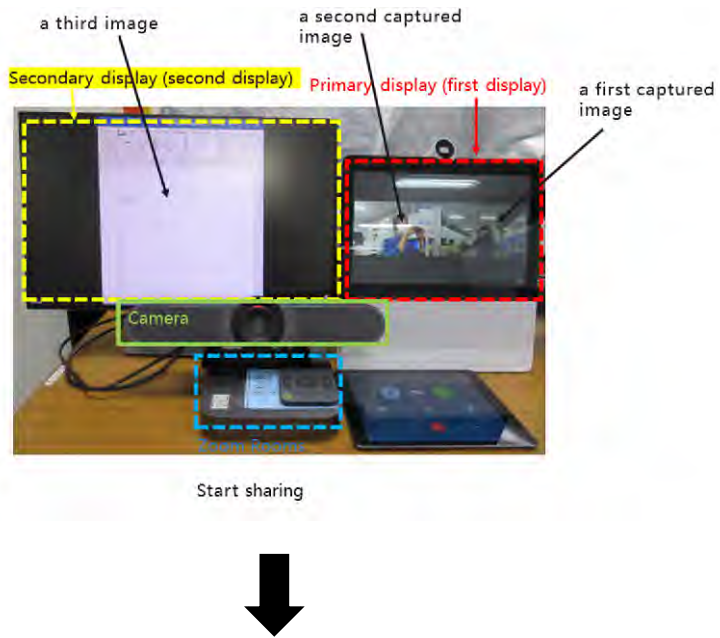
| Claims of US Patent No. 11,256,464                  | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|                                                     | <p>is different from the first captured image (e.g., the image captured by the camera at the local site) and the second captured image (e.g., the captured image of the video conference participant at the remote site).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>1[e] a display control circuit configured to</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes a display control circuit.</p> <p>By way of a non-limiting example, DTEN D7 (e.g., D7 Dual 75") is provided with a display control circuit configured to control a first display and a second display for a video conference.</p>  <p><a href="https://www.dten.com/products/dten-d7/dual-75/?srsltid=AfmBOoqOXXKh8uTWwXW7kTA7T_i0wGKRqW6nrt_1nnx8QscL4PnWCfW9o">https://www.dten.com/products/dten-d7/dual-75/?srsltid=AfmBOoqOXXKh8uTWwXW7kTA7T_i0wGKRqW6nrt_1nnx8QscL4PnWCfW9o</a> (accessed July 7, 2026)</p> |

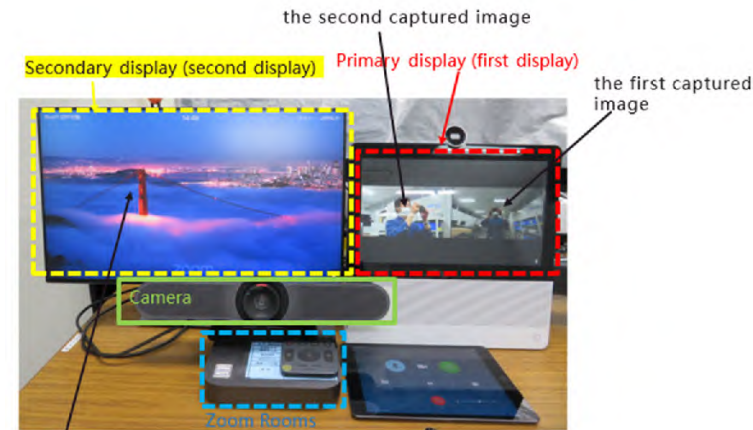
| Claims of US Patent No. 11,256,464                                                              | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                 | <div>  <p><a href="https://www.zoom.com/en/products/meeting-rooms/resources/configuration/">https://www.zoom.com/en/products/meeting-rooms/resources/configuration/</a> (accessed on July 7, 2026)</p> <p>As shown in the figures above, DTEN D7 operates with Zoom Rooms software to conduct a video conference and therefore includes a display control circuit configured to control the first display and the second display during the video conference.</p> <p><i>See also, e.g., supra</i> Claim 1[pre].</p> </div> |
| <p>1[f] control the first display and the second display; and</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes a display control circuit configured to control the first display and the second display.</p> <p><i>See also, e.g., supra</i> Claim 1[e].</p>                                                                                                                                                                                                                                                                                                                                                                           |

| Claims of US Patent No. 11,256,464                                                                                                                                                                                                                                                                                                                                                                                                                 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <p>1[g] in response to supply of the third image being finished while the first display displays the first captured image and the second captured image and the second display displays the third image, automatically control the first display to display the first captured image and the second captured image and control the second display to display none of the first captured image, the second captured image, and the third image.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes a display control circuit configured to, in response to supply of the third image being finished while the first display displays the first captured image and the second captured image and the second display displays the third image, automatically control the first display to display the first captured image and the second captured image and control the second display to display none of the first captured image, the second captured image, and the third image.</p> <p>A non-limiting example is shown below:</p>  <p>The diagram illustrates a Zoom D7 device setup. It features a primary display (first display) and a secondary display (second display). The primary display shows a first captured image. The secondary display shows a second captured image. A camera is positioned between the displays. A third image is shown on the secondary display. A 'Start sharing' button is shown below the displays.</p> |

| Claims of US Patent No. 11,256,464 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <div> </div> <p>display none of the first captured image, the second captured image and the third image.</p> <p>End sharing</p> <p>The figures above illustrate a transition of the primary display (e.g., the first display) and the secondary display (e.g., the second display) from the start of screen sharing to the end of screen sharing by the other communication device. Specifically, in response to the supply of the third image (e.g., the shared screen from the other communication device) being finished, while the primary display is displaying the first captured image (e.g., the image captured by the camera at the local site) and the second captured image (e.g., the image of the video conference participant at the remote site), the secondary display (e.g., the second display) is automatically controlled to display none of the first captured image, the second captured image, and the third image (e.g., the shared screen from the other communication device).</p> |

| Claims of US Patent No. 11,256,464                                                                                                                                                                     | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <p>2. The communication device according to claim 1, wherein the third image comprises one of a desktop screen and a user interface of an application program.</p>                                     | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device is the communication device according to claim 1, where the third image comprises one of a desktop screen and a user interface of an application program.</p> <p>A non-limiting example is shown below:</p>  <p>As shown in the figure above, the secondary display of the user device with Zoom Rooms software installed displays a third image (e.g., a shared screen from the other communication device) and the third image is a user interface of an application program (e.g., a user interface of Microsoft Word).</p> |
| <p>3. The communication device according to claim 1, wherein the third image comprises an image created by using one of word-processing software, spreadsheet software, and presentation software.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device is the communication device according to claim 1, where the third image comprises an image created by using one of word-processing software, spreadsheet software, and presentation software.</p> <p><i>See also, e.g., supra Claim 2.</i></p>                                                                                                                                                                                                                                                                                                                                                                   |

| Claims of US Patent No. 11,256,464                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <p>4. The communication device according to claim 1, further comprising: an operation receiving circuit configured to receive an instruction to change between a first display scheme and a second display scheme, wherein according to the first display scheme, the first display is controlled to display the first captured image and the second captured image and the second display is controlled to display none of the first captured image, the second captured image, and the third image, and according to the second display scheme, the first display is controlled to display the first captured image and the second captured image and the second display is controlled to display the third image.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device is the communication device according to claim 1, further comprising an operation receiving circuit configured to receive an instruction to change between a first display scheme and a second display scheme, where according to the first display scheme, the first display is controlled to display the first captured image and the second captured image and the second display is controlled to display none of the first captured image, the second captured image, and the third image, and according to the second display scheme, the first display is controlled to display the first captured image and the second captured image and the second display is controlled to display the third image.</p> <p>A non-limiting example is shown below:</p>  <p>The diagram illustrates a Zoom DTEN D7 device setup. The top part shows two display schemes. The 'Primary display (first display)' is shown with a red dashed border, displaying a 'a first captured image'. The 'Secondary display (second display)' is shown with a yellow dashed border, displaying a 'a third image'. A 'Camera' is shown with a green dashed border, displaying a 'a second captured image'. The bottom part shows the 'Zoom DTEN D7' device with a 'Camera' and a 'Start sharing' button. A large black arrow points from the top part to the bottom part.</p> |



display none of the first captured image, the second captured image and the third image.

End sharing

The figures above illustrate a transition of the primary display (e.g., the first display) and the secondary display (e.g., the second display) from the start of screen sharing to the end of screen sharing by the other communication device. When the other communication device starts screen sharing with the user device, the primary display of the user device is controlled to display the first captured image (e.g., the image captured by the camera at the local site) and the second captured image (e.g., the captured image of a video conference participant at the remote site), and the secondary display is controlled to display the third image (e.g., the shared screen from the other communication device) according to a second display scheme.

When the other communication device stops screen sharing with the user device, the user device is configured to receive an instruction to change from the second display scheme to a first display scheme. Specifically, the primary display is controlled to display the first captured image (e.g., the image captured by the camera at the local site) and the second captured image (e.g., the image of the video conference participant at the remote site), the secondary display (e.g., the second display) is controlled to display none of the first captured image, the second captured image, and the third image (e.g., the shared screen from the other communication device) according to the first display scheme.

| Claims of US Patent No. 11,256,464                                                                                                                                                                                      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                      |
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|                                                                                                                                                                                                                         | <i>See also, e.g., supra</i> Claims 1[a] to 1[g].                                                                                                                                                                                                                                                                                                            |
| 5[pre] A method implemented by a communication device connected to an image capturing apparatus, a first display, and a second display, the method comprising:                                                          | To the extent the preamble is limiting, the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method implemented by a communication device connected to an image capturing apparatus, a first display, and a second display.<br><br><i>See also, e.g., supra</i> Claim 1[pre].                                                      |
| 5[a] transmitting data of a first captured image captured by the image capturing apparatus via a network;                                                                                                               | The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method of transmitting data of a first captured image captured by the image capturing apparatus via a network.<br><br><i>See also, e.g., supra</i> Claims 1[a]-1[b].                                                                                                          |
| 5[b] receiving data of a second captured image via the network;                                                                                                                                                         | The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method of receiving data of a second captured image via the network.<br><br><i>See also, e.g., supra</i> Claim 1[c].                                                                                                                                                          |
| 5[c] receiving data of a third image that is displayed on a display device of another communication device via the network, the third image being different from the first capture image and the second captured image; | The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method of receiving data of a third image that is displayed on a display device of another communication device via the network, the third image being different from the first captured image and the second captured image.<br><br><i>See also, e.g., supra</i> Claim 1[d]. |
| 5[d] controlling the first display and the second display; and                                                                                                                                                          | The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method of controlling the first display and the second display.<br><br><i>See also, e.g., supra</i> Claims 1[e] and 1[f].                                                                                                                                                     |

| Claims of US Patent No. 11,256,464                                                                                                                                                                                                                                                                                                                                                                                                                          | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <p>5[e] in response to supply of the third image being finished while the first display displays the first captured image and the second captured image and the second display displays the third image, automatically controlling the first display to display the first captured image and the second captured image, and controlling the second display to display none of the first captured image, the second captured image, and the third image.</p> | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method of, in response to supply of the third image being finished while the first display displays the first captured image and the second captured image and the second display displays the third image, automatically controlling the first display to display the first captured image and the second captured image, and controlling the second display to display none of the first captured image, the second captured image, and the third image.</p> <p><i>See also, e.g., supra Claim 1[g].</i></p>                                                                                    |
| <p>6. The method according to claim 5, wherein the third image comprises one of a desktop screen and a user interface of an application program.</p>                                                                                                                                                                                                                                                                                                        | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method according to claim 5, where the third image comprises one of a desktop screen and a user interface of an application program.</p> <p><i>See also, e.g., supra Claim 2.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>7. The method according to claim 5, wherein the third image comprises an image created by using one of word-processing software, spreadsheet software, and presentation software.</p>                                                                                                                                                                                                                                                                    | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method according to claim 5, where the third image comprises an image created by using one of word-processing software, spreadsheet software, and presentation software.</p> <p><i>See also, e.g., supra Claim 3.</i></p>                                                                                                                                                                                                                                                                                                                                                                         |
| <p>8. The method according to claim 5, further comprising:</p> <p>receiving an instruction to change between a first display scheme and a second display scheme;</p>                                                                                                                                                                                                                                                                                        | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a method according to claim 5, further comprising: receiving an instruction to change between a first display scheme and a second display scheme; in a case that the instruction indicates to change to the first display scheme, controlling the first display to display the first captured image and the second captured image and controlling the second display to display none of the first captured image, the second captured image, and the third image; in a case that the instruction indicates to change to the second display scheme, controlling the first display to display the</p> |

| Claims of US Patent No. 11,256,464                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>in a case that the instruction indicates to change to the first display scheme, controlling the first display to display the first captured image and the second captured image and controlling the second display to display none of the first captured image, the second captured image, and the third image;</p> <p>in a case that the instruction indicates to change to the second display scheme, controlling the first display to display the first captured image and the second captured image and controlling the second display to display the third image.</p> | <p>first captured image and the second captured image and controlling the second display to display the third image.</p> <p><i>See, e.g., supra</i> Claim 4.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>9[pre] A non-transitory computer readable medium storing computer executable instructions which, when executed by circuitry of a computer, cause the computer to:</p>                                                                                                                                                                                                                                                                                                                                                                                                      | <p>To the extent the preamble is limiting, the Accused Instrumentality includes one or more non-transitory computer-readable medium storing computer executable instructions which, when executed by circuitry of a computer, causes the computer to perform a method.</p> <p>For example, the Accused Instrumentality may be downloaded, installed or pre-installed on one or more computing devices including Zoom hardware partner devices (e.g., DTEN D7) and/or a user's device, where the stored instructions are executable by the computing device to perform a method.</p> <p><i>See, e.g., supra</i> Claims 1[pre] and 5[pre].</p> |
| <p>9[a] transmit data of a first captured image captured by an image capturing apparatus via a network;</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms causes the computer to transmit data of a first captured image captured by an image capturing apparatus via a network.</p> <p><i>See, e.g., supra</i> Claims 1[a], 1[b], and 5[a].</p>                                                                                                                                                                                                                                                                                                                                                                                |

| Claims of US Patent No. 11,256,464                                                                                                                                                                                                                                                                                                                                                                                                          | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9[b] receive data of a second captured image via the network; and                                                                                                                                                                                                                                                                                                                                                                           | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms causes the computer to receive data of a second captured image via the network.</p> <p><i>See, e.g., supra</i> Claims 1[c], and 5[b].</p>                                                                                                                                                                                                                                                                                                                                                                                |
| 9[c] receive data of a third image that is displayed on a display of another device via the network, the third image being different than the first captured image and the second captured image; and                                                                                                                                                                                                                                       | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms causes the computer to receive data of a third image that is displayed on a display of another device via the network, the third image being different than the first captured image and the second captured image.</p> <p><i>See, e.g., supra</i> Claims 1[d], and 5[c].</p>                                                                                                                                                                                                                                            |
| 9[d] control a first display and a second display; and                                                                                                                                                                                                                                                                                                                                                                                      | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms causes the computer to control a first display and a second display.</p> <p><i>See, e.g., supra</i> Claims 1[e], 1[f], and 5[d].</p>                                                                                                                                                                                                                                                                                                                                                                                     |
| 9[e] in response to supply of the third image being finished while the first display displays the first captured image and the second captured image and the second display displays the third image, automatically control the first display to display the first captured image and the second captured image and control the second display to display none of the first captured image, the second captured image, and the third image. | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms causes the computer to, in response to supply of the third image being finished while the first display displays the first captured image and the second captured image and the second display displays the third image, automatically control the first display to display the first captured image and the second captured image and control the second display to display none of the first captured image, the second captured image, and the third image.</p> <p><i>See, e.g., supra</i> Claims 1[g], and 5[e].</p> |
| 10. The non-transitory computer readable medium according to claim 9, wherein the computer is further caused to:                                                                                                                                                                                                                                                                                                                            | <p>The Accused Instrumentality includes one or more non-transitory computer-readable medium according to claim 9, where the computer is further caused to receive an instruction to change between a first display scheme and a second display scheme; in a case that the instruction indicates to change to the first display scheme, control the first display to display the first captured image and the second captured image and control</p>                                                                                                                                              |

| Claims of US Patent No. 11,256,464                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>receive an instruction to change between a first display scheme and a second display scheme;</p> <p>in a case that the instruction indicates to change to the first display scheme, control the first display to display the first captured image and the second captured image and control the second display to display none of the first captured image, the second captured image, and the third image;</p> <p>in a case that the instruction indicates to change to the second display scheme, control the first display to display the first captured image and the second captured image and control the second display to display the third image.</p> | <p>the second display to display none of the first captured image, the second captured image, and the third image; in a case that the instruction indicates to change to the second display scheme, control the first display to display the first captured image and the second captured image and control the second display to display the third image.</p> <p><i>See, e.g., supra</i> Claims 4, and 8.</p> |

# Exhibit E

**Exhibit E**  
**Infringement Claim Chart for U.S. Patent No. 11,289,093**

Ricoh Company, Ltd. (“Ricoh”) provides evidence of infringement of claims 1-22 of U.S. Patent No. 11,289,093 (hereinafter “the ’093 Patent”) by Defendant Zoom Communications, Inc. f/k/a Zoom Video Communications, Inc. (“Zoom”). In support thereof, Ricoh provides the following claim chart. “Accused Instrumentality” as used herein refers to Zoom’s video conferencing products and services, including but not limited to, Zoom Meetings, Zoom Rooms, Zoom Cloud Recording, Zoom Sessions, and Zoom Webinars, and associated software and accessories.

This claim chart demonstrates Zoom’s infringement and provides notice of such infringement, by comparing each element of the asserted claim to corresponding components, aspects, and/or features of the Accused Instrumentality. This claim chart is not intended to constitute an expert report on infringement. This claim chart includes information provided by way of example, and not by way of limitation.

Zoom has not produced any documents requested in discovery, including its core technical documents, to enable Ricoh to properly analyze and identify all Accused Instrumentality, associated functionalities, and related Zoom software. An analysis of Zoom’s (or other third parties’) technical documentation and/or software source code may assist in fully identifying all infringing features and functionality. Accordingly, Ricoh reserves the right to supplement this infringement analysis once such information is made available to Ricoh. Furthermore, Ricoh reserves the right to revise this infringement analysis, as appropriate, upon issuance of a court order construing any terms recited in the claims of the ’093 Patent.

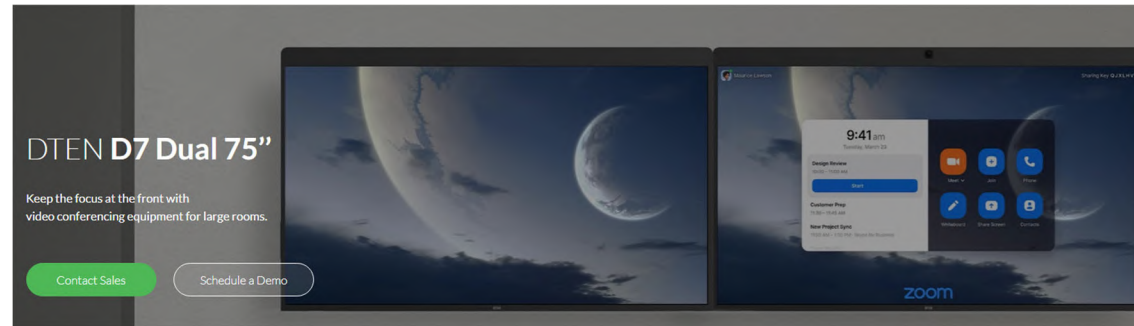
Unless otherwise noted, Ricoh contends that Zoom directly infringes the ’093 Patent in violation of 35 U.S.C. § 271(a) by selling, offering to sell, making, using, and/or importing the Accused Instrumentality. The following exemplary analysis demonstrates that infringement. Unless otherwise noted, Ricoh further contends that the evidence below supports a finding of indirect infringement under 35 U.S.C. §§ 271(b) and/or (c), in conjunction with other evidence of liability under one or more of those subsections. Zoom makes, uses, sells, imports, or offers for sale in the United States, or has made, used, sold, imported, or offered for sale in the past, without authority, or induces others to make, use, sell, import, or offer for sale in the United States, or has induced others to make, use, sell, import, or offer for sale in the past, without authority, products, equipment, or services that infringe claims 1-22 of the ’093 Patent, including without limitation, the Accused Instrumentality.

Unless otherwise noted, Ricoh believes and contends that each element of the claims asserted herein is literally met through Zoom’s provision of the Accused Instrumentality. However, to the extent that Zoom attempts to allege that any asserted claim element is not literally met, Ricoh believes and contends that such elements are met under the doctrine of equivalents. More specifically, in its investigation and analysis of the Accused Instrumentality, Ricoh did not identify any substantial differences between the elements of the patent claims and the corresponding features of the Accused Instrumentality, as set forth herein. In each instance, the identified feature of the Accused Instrumentality performs at least substantially the same function in substantially the same way to achieve substantially the same result as the corresponding claim element. In the event that a claim element is deemed to be missing under a literal infringement analysis (e.g., due to the Court’s claim construction), Plaintiff reserves the right to demonstrate the presence of a substantial equivalent of such an element and to pursue infringement under the Doctrine of Equivalents.

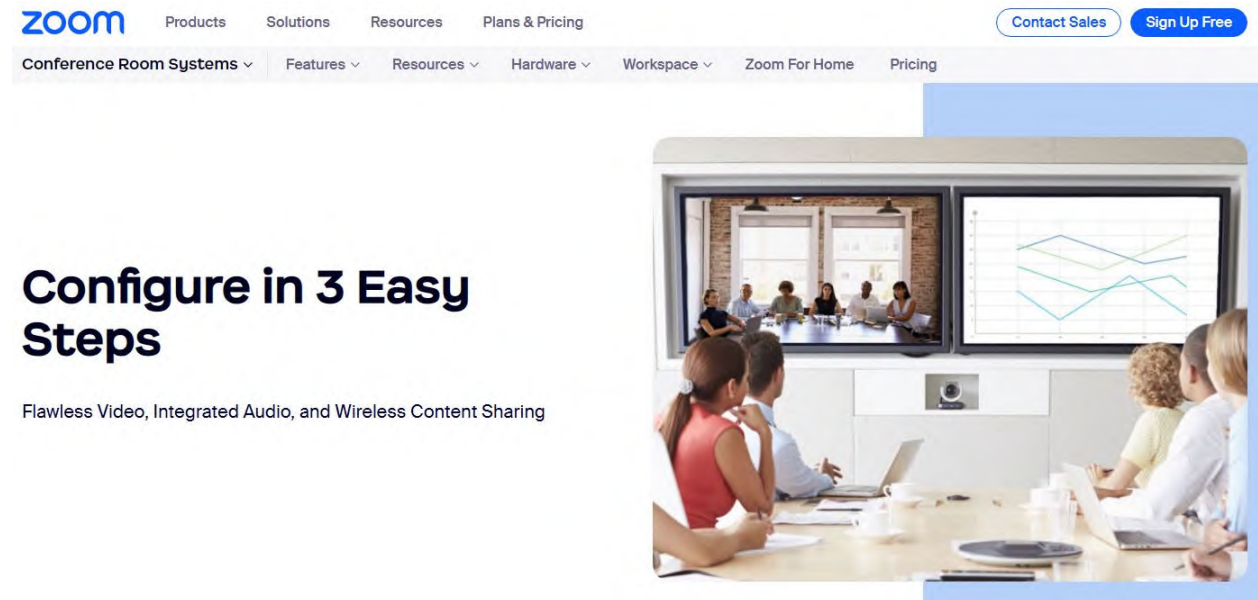
To the extent the chart of an asserted claim relies on evidence about certain specifically identified Accused Instrumentality, Ricoh asserts that, on information and belief, any similarly functioning products or instrumentalities also infringe the charted claim. Ricoh reserves the right to amend this infringement analysis based on other products made, used, sold, imported, or offered for sale by Zoom. Ricoh also reserves the right to amend this infringement analysis to chart other claims of the '093 Patent, not listed in the claim chart, that are infringed by the Accused Instrumentality. Ricoh further reserves the right to amend this infringement analysis by adding, subtracting, or otherwise modifying content in the Accused Instrumentality.

All infringement contentions set forth herein for any independent patent claims are hereby incorporated by reference into the infringement contentions alleged for any dependent claims that depend on independent claims, as if fully set forth herein.

| Claims of US Patent No. 11,289,093                     | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1[pre] A display control apparatus, comprising:</p> | <p>To the extent preamble is limiting, a display control apparatus that incorporates the Accused Instrumentality directly infringes claim 1 of the '093 Patent. For example, a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device such as a desktop, laptop, tablet, or other electronic device is a display control apparatus that incorporates the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms.</p> <p>A non-limiting example is shown below:</p> <p>The <b>DTEN D7</b> is a complete <b>Zoom</b> Rooms TOUCH conferencing installation, including all hardware and software. The built-in, AI enhanced, 16 element microphone array with 4K camera, offers a best-in-class conferencing, wireless, screen sharing, and white boarding experience. <i>(All software is pre-installed.)</i></p> <p><a href="https://help.dten.com/hc/en-us/article_attachments/900006433903">https://help.dten.com/hc/en-us/article_attachments/900006433903</a> (accessed on July 9, 2025).</p> <p>DTEN D7 includes a touchscreen, integrated PC, microphone, speaker, HD camera, and Zoom Meetings for Touch pre-installed.</p> <p><a href="https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0063196">https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0063196</a> (accessed July 9, 2025).</p> <p>As shown in the figure below, a Zoom hardware partner device such as DTEN D7 (e.g., D7 Dual 75") with the Accused Instrumentality (e.g., Zoom Meetings or Zoom Rooms software) installed is a display control apparatus configured to control the display of information for video conferencing.</p> |



[https://www.dten.com/products/dten-d7/dual-75/?srsId=AfmBOoqOXKh8uTWwXW7kTA7T\\_i0wGKRqW6nrt\\_1nnx8QscL4PnWCfW9o](https://www.dten.com/products/dten-d7/dual-75/?srsId=AfmBOoqOXKh8uTWwXW7kTA7T_i0wGKRqW6nrt_1nnx8QscL4PnWCfW9o) (accessed July 7, 2026)



| Claims of US Patent No. 11,289,093 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p><a href="https://www.zoom.com/en/products/meeting-rooms/resources/configuration/">https://www.zoom.com/en/products/meeting-rooms/resources/configuration/</a> (accessed on July 7, 2026)</p> <p>Non-limiting examples of Zoom user's devices such as desktop computers, laptops, and mobile devices (regardless of hardware brand) are shown below:</p>  <p><a href="https://wigatos.com/22172-cara-zoom-meeting-di-laptop/">https://wigatos.com/22172-cara-zoom-meeting-di-laptop/</a> (accessed on July 7, 2026).</p>  |

| Claims of US Patent No. 11,289,093 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p><a href="https://dailybruin.com/2024/04/23/research-reveals-delaying-in-person-medical-residency-visits-can-reduce-inequities">https://dailybruin.com/2024/04/23/research-reveals-delaying-in-person-medical-residency-visits-can-reduce-inequities</a> (accessed on July 7, 2026).</p>  <p><a href="https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/">https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/</a> (accessed on July 7, 2026).</p> <p>On information and belief, Zoom supplies its proprietary software that, upon activation, engagement, or use by any user or operator, takes functional control of the underlying hardware on which it runs, regardless of the make, brand, or original configuration of that hardware. Once Zoom’s software is installed and activated, the host device—whether a desktop computer, laptop, tablet, smartphone, conference room system such as DTEN D7, or other computing device—ceases to function as a general-purpose machine with respect to the claimed functionalities and instead operates as a Zoom special purpose computer: a device that is directed, managed, and/or controlled by Zoom’s proprietary software to perform the specific functions of video conferencing. Accordingly, the Accused Instrumentalities encompass not only Zoom’s software but also any hardware device on which Zoom’s software is activated, engaged, or used, as such devices become a Zoom special purpose computer for purposes of the infringing acts described herein.</p> |
| 1[a] circuitry configured to:      | A Zoom user’s device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes a circuitry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Claims of US Patent No. 11,289,093 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p>By way of a non-limiting example, DTEN D7 includes circuitry configured to operate the device, such as by communicating with Zoom's servers and controlling the display of information for a video conference.</p> <p>The <b>DTEN D7</b> is a complete <b>ZOOM</b> Rooms TOUCH conferencing installation, including all hardware and software. The built-in, AI enhanced, 16 element microphone array with 4K camera, offers a best-in-class conferencing, wireless, screen sharing, and white boarding experience. <i>(All software is pre-installed.)</i></p> |

Claims of US Patent No. 11,289,093

ACCUSED INSTRUMENTALITY



55" DTEN D7

SPECIFICATIONS

All-in-One Video  
Conferencing for Face to Face  
Meeting Experience

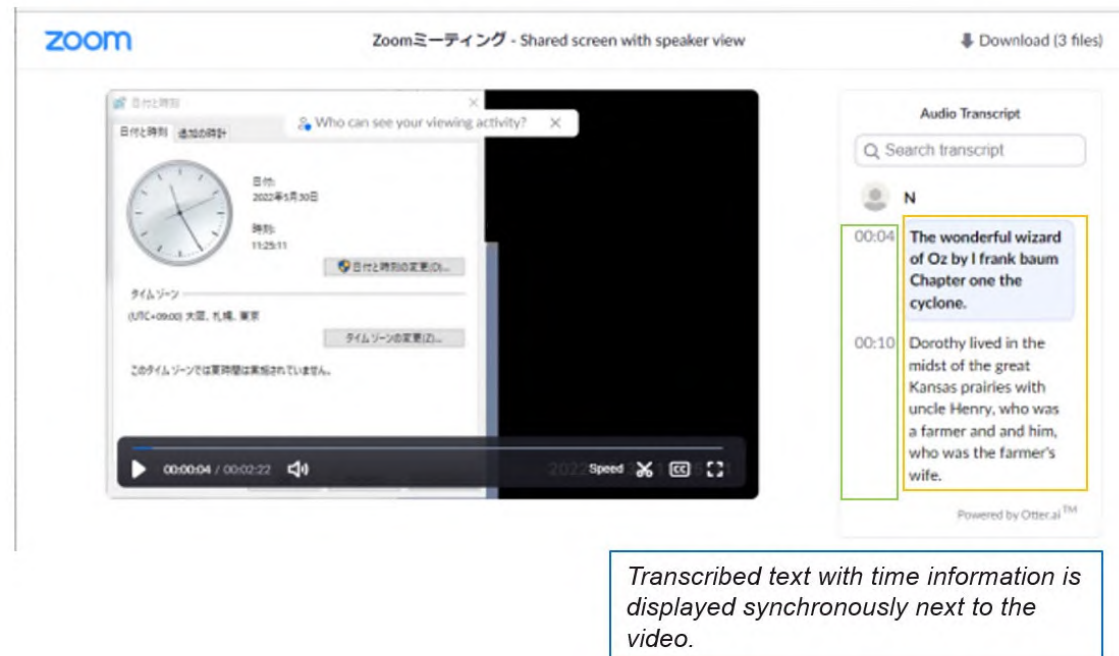


\*D7 in this image is not in 1:1 ratio



| Claims of US Patent No. 11,289,093 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
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|                                    | <table><tr><td>PRODUCT</td><td>D7 55"</td></tr><tr><td>SOFTWARE</td><td>DTEN D7 OS, provisioned by D7 OS</td></tr><tr><td>ALL-IN-ONE D7</td><td>LED 55" Multi-Touch Display<br/>4K Camera<br/>16-Microphone Array<br/>Integrated Speakers</td></tr><tr><td>DISPLAY</td><td>LED 75" , 4K , 16:9<br/>Capacitive Touch Screen</td></tr><tr><td>CAMERA SYSTEM</td><td>Fixed Lens, Infinite Focus<br/>F-value: 2.8<br/>4K<br/>Diagonal Field of View (FOV): 86 Degrees<br/>Unit Mounted Tilt: 15 Degrees</td></tr><tr><td>AUDIO SYSTEM</td><td>16 Elements Microphone Array<br/>Integrated 2-Channel Stereo Speakers<br/>High Quality 20-kHz Audio<br/>Zoom Rooms Acoustic Echo Cancellation<br/>Automatic Gain Control (AGC)<br/>Automatic Noise Reduction</td></tr><tr><td>NETWORK</td><td>Ethernet (RJ-45) 100/1000 Mbps<br/>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br/>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br/>HTTP Proxy Support</td></tr></table> | PRODUCT | D7 55" | SOFTWARE | DTEN D7 OS, provisioned by D7 OS | ALL-IN-ONE D7 | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers | DISPLAY | LED 75" , 4K , 16:9<br>Capacitive Touch Screen | CAMERA SYSTEM | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees | AUDIO SYSTEM | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction | NETWORK | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support | <table><tr><td>INPUTS AND OUTPUTS</td><td>HDMI Out x 1<br/>USB 3.0 x 1<br/>3.5-mm Audio Jack x 1<br/>Microphone x 1<br/>Ethernet LAN (RJ45) x 1</td></tr><tr><td>POWER</td><td>Auto-Sensing Power Supply<br/>100 to 240 VAC, 50 to 60 Hz</td></tr><tr><td>PRODUCT DIMENSIONS</td><td>49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)</td></tr><tr><td>PRODUCT WEIGHT</td><td>50.7 lb (23 kg)</td></tr><tr><td>PACKAGE DIMENSIONS</td><td>56 x 36 x 8.5 in (142 x 92 x 21.5 cm)</td></tr><tr><td>PACKAGE WEIGHT</td><td>77 lb (35 kg)</td></tr><tr><td>OPERATING TEMPERATURE AND HUMIDITY</td><td>Operating Temperature 0°C to 40°C<br/>Storage Temperature -10°C to 60°C<br/>Operating Humidity 20% to 80% RH<br/>Storage Humidity 10% to 60% RH</td></tr><tr><td>LANGUAGE SUPPORT</td><td>English<br/>* Additional languages to be supported in future software release</td></tr><tr><td>SYSTEM REQUIREMENT</td><td>Zoom Rooms License</td></tr><tr><td>APPROVALS AND COMPLIANCE</td><td>FCC, CE, CCC, ROHS, ACMA, CB<br/>PSE, TELEC, BIS (Pending)</td></tr></table> | INPUTS AND OUTPUTS | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1 | POWER | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz | PRODUCT DIMENSIONS | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm) | PRODUCT WEIGHT | 50.7 lb (23 kg) | PACKAGE DIMENSIONS | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm) | PACKAGE WEIGHT | 77 lb (35 kg) | OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH | LANGUAGE SUPPORT | English<br>* Additional languages to be supported in future software release | SYSTEM REQUIREMENT | Zoom Rooms License | APPROVALS AND COMPLIANCE | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending) |
| PRODUCT                            | D7 55"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| SOFTWARE                           | DTEN D7 OS, provisioned by D7 OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| ALL-IN-ONE D7                      | LED 55" Multi-Touch Display<br>4K Camera<br>16-Microphone Array<br>Integrated Speakers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| DISPLAY                            | LED 75" , 4K , 16:9<br>Capacitive Touch Screen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| CAMERA SYSTEM                      | Fixed Lens, Infinite Focus<br>F-value: 2.8<br>4K<br>Diagonal Field of View (FOV): 86 Degrees<br>Unit Mounted Tilt: 15 Degrees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| AUDIO SYSTEM                       | 16 Elements Microphone Array<br>Integrated 2-Channel Stereo Speakers<br>High Quality 20-kHz Audio<br>Zoom Rooms Acoustic Echo Cancellation<br>Automatic Gain Control (AGC)<br>Automatic Noise Reduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| NETWORK                            | Ethernet (RJ-45) 100/1000 Mbps<br>Wi-Fi 802.11a/b/g/n, 802.11ac (2.4 and 5 GHz)<br>IPv4 Dynamic Host Configuration Protocol (DHCP)/ Static<br>HTTP Proxy Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| INPUTS AND OUTPUTS                 | HDMI Out x 1<br>USB 3.0 x 1<br>3.5-mm Audio Jack x 1<br>Microphone x 1<br>Ethernet LAN (RJ45) x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| POWER                              | Auto-Sensing Power Supply<br>100 to 240 VAC, 50 to 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PRODUCT DIMENSIONS                 | 49 x 30.5 x 2.13 in (124.49 x 77.38 x 5.42 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PRODUCT WEIGHT                     | 50.7 lb (23 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PACKAGE DIMENSIONS                 | 56 x 36 x 8.5 in (142 x 92 x 21.5 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| PACKAGE WEIGHT                     | 77 lb (35 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| OPERATING TEMPERATURE AND HUMIDITY | Operating Temperature 0°C to 40°C<br>Storage Temperature -10°C to 60°C<br>Operating Humidity 20% to 80% RH<br>Storage Humidity 10% to 60% RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| LANGUAGE SUPPORT                   | English<br>* Additional languages to be supported in future software release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| SYSTEM REQUIREMENT                 | Zoom Rooms License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
| APPROVALS AND COMPLIANCE           | FCC, CE, CCC, ROHS, ACMA, CB<br>PSE, TELEC, BIS (Pending)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |
|                                    | <a href="https://help.dten.com/hc/en-us/article_attachments/900006433903">https://help.dten.com/hc/en-us/article_attachments/900006433903</a> (accessed on July 9, 2025).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |        |          |                                  |               |                                                                                        |         |                                                |               |                                                                                                                               |              |                                                                                                                                                                                                         |         |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                                                                                   |       |                                                          |                    |                                                |                |                 |                    |                                       |                |               |                                    |                                                                                                                                              |                  |                                                                              |                    |                    |                          |                                                           |

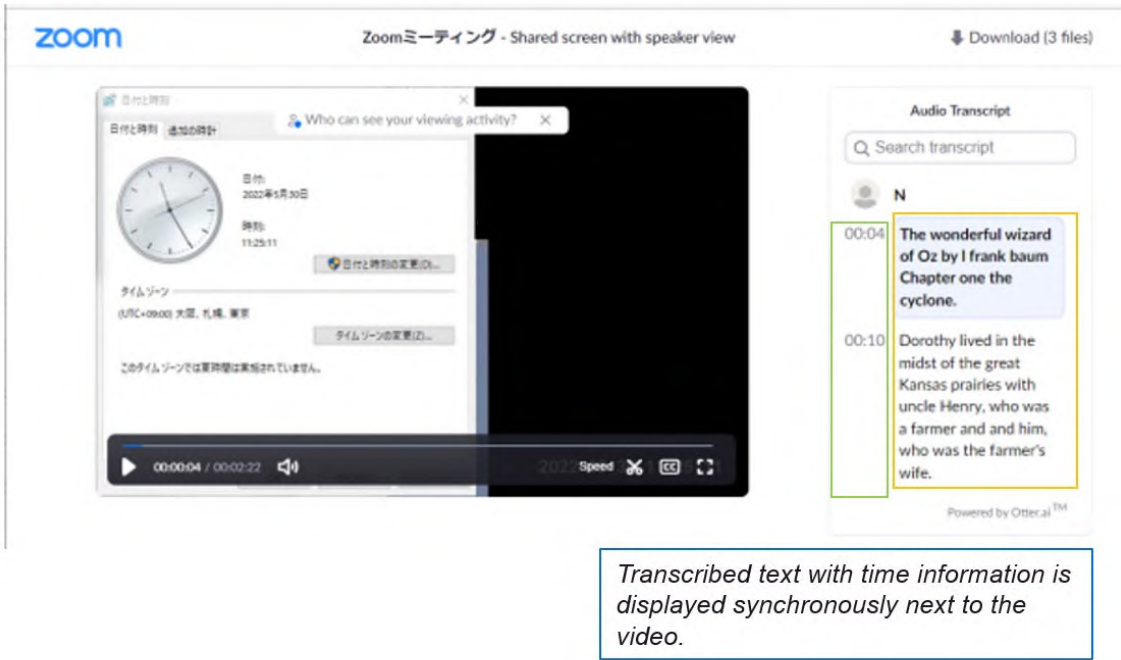
| Claims of US Patent No. 11,289,093                                                                                                                                             | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                |  <p> <a href="https://www.dten.com/ko/products/dten-d7/basic-55/?srsltid=AfmBOop1uaxjfdgOXFXri-Po_cUo8joaJaMniKiBxfZBtpDTquRICjmt">https://www.dten.com/ko/products/dten-d7/basic-55/?srsltid=AfmBOop1uaxjfdgOXFXri-Po_cUo8joaJaMniKiBxfZBtpDTquRICjmt</a> (accessed on June 30, 2026) </p> <p>As shown in the figure above, DTEN D7 operates with Zoom Rooms software to conduct a video conference and therefore includes circuitry to perform operational functions for a video conference.</p> |
| <p>1[b] receive text data converted from voice data, and time information from a server that manages content data generated during an event;</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes circuitry configured to receive text data converted from voice data, and time information from a server that manages content data generated during an event.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                       |

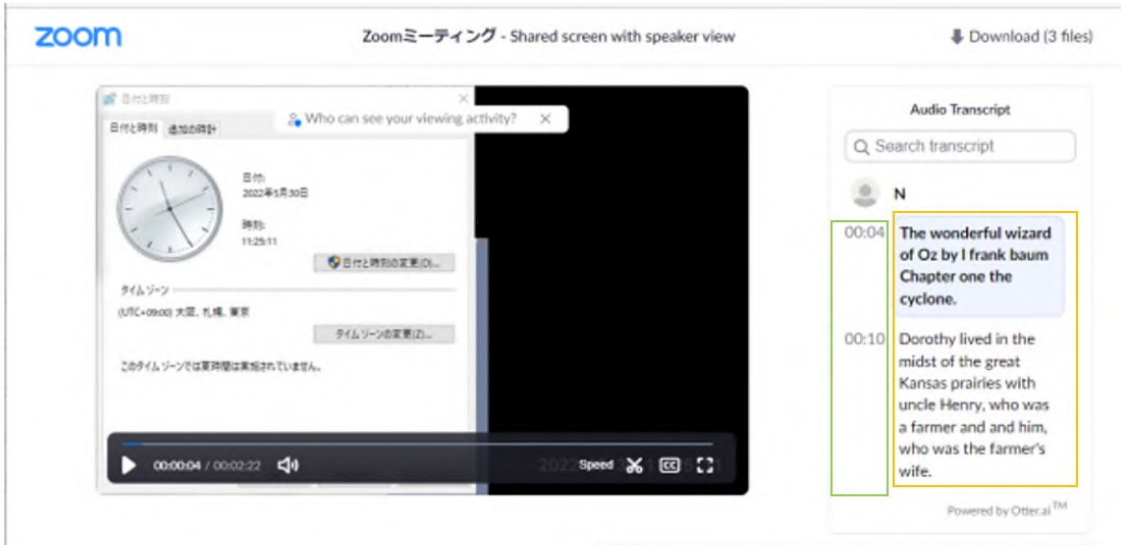


The figure above depicts the playback interface for a Zoom cloud recording, in which the video player and Audio Transcript panel are rendered with content served by Zoom's cloud infrastructure to the user's client (e.g., Zoom Meetings).

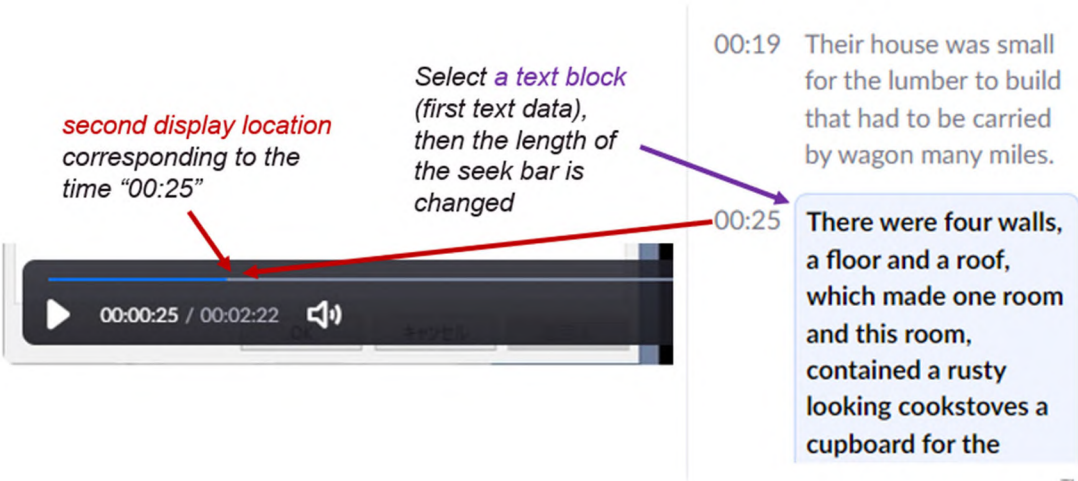
The user's client (e.g., Zoom Meetings), executed by the circuitry, receives text data and time information from Zoom's remote cloud servers and the text data is converted from voice data recorded by Zoom's remote cloud servers.

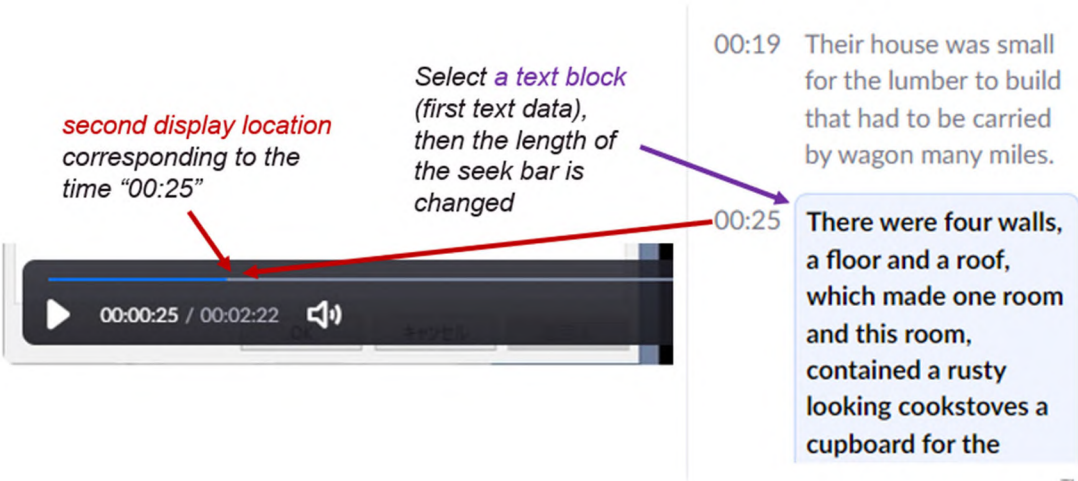
On information and belief, Zoom's servers record the audio during the meeting, perform the speech recognition processing, store the resulting transcript file in the cloud, and during playback of the recorded meeting, provide it to the client, where it is displayed in temporal alignment with the corresponding audio and

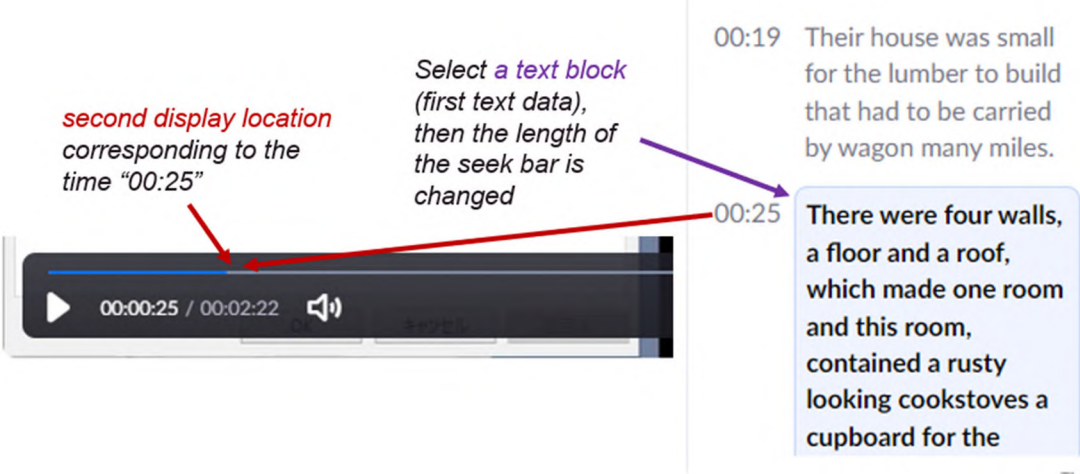
| Claims of US Patent No. 11,289,093                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            | <p>video. Zoom's servers manage content data (e.g., the video content and transcript content) generated during the meeting event.</p> <p>See <a href="https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0064927">https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0064927</a>, accessed on July 9, 2026.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>1[c] control a display to: display the text data in an order according to the time information, and</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes circuitry configured to control a display to display the text data in an order according to the time information.</p> <p>A non-limiting example is shown below:</p>  <p>The screenshot displays a Zoom meeting interface. On the left, there is a sidebar with a clock showing 11:25:11 and a video player. The video player shows a video frame. On the right, there is an 'Audio Transcript' sidebar. The transcript shows text with time stamps: '00:04 The wonderful wizard of Oz by I frank baum Chapter one the cyclone.' and '00:10 Dorothy lived in the midst of the great Kansas prairies with uncle Henry, who was a farmer and and him, who was the farmer's wife.' A callout box points to the transcript text with the text: 'Transcribed text with time information is displayed synchronously next to the video.'</p> |

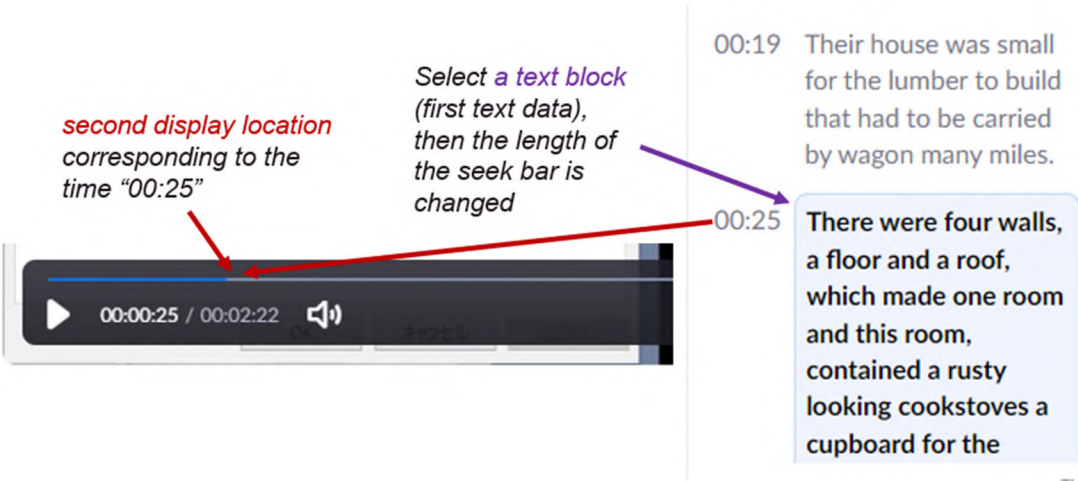
| Claims of US Patent No. 11,289,093                                                                                                                   | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                      | <p>As shown in the figure above, the text data is displayed on a display in an order according to the time information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>1[d] display a graphical control region, at a first display location, that sets playback position in a total playback time of the voice data;</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes circuitry configured to display a graphical control region, at a first display location, that sets playback position in a total playback time of the voice data.</p> <p>A non-limiting example is shown below:</p>  <p>The screenshot shows a Zoom meeting interface. On the left, there is a 'Zoomミーティング - Shared screen with speaker view' header. Below it, a video player is visible, showing a clock and a play button. To the right of the video player, there is an 'Audio Transcript' sidebar. The transcript shows two entries: '00:04 The wonderful wizard of Oz by I frank baum Chapter one the cyclone.' and '00:10 Dorothy lived in the midst of the great Kansas prairies with uncle Henry, who was a farmer and and him, who was the farmer's wife.' The transcript is powered by Otter.ai.</p> <p>Transcribed text with time information is displayed synchronously next to the video.</p> |

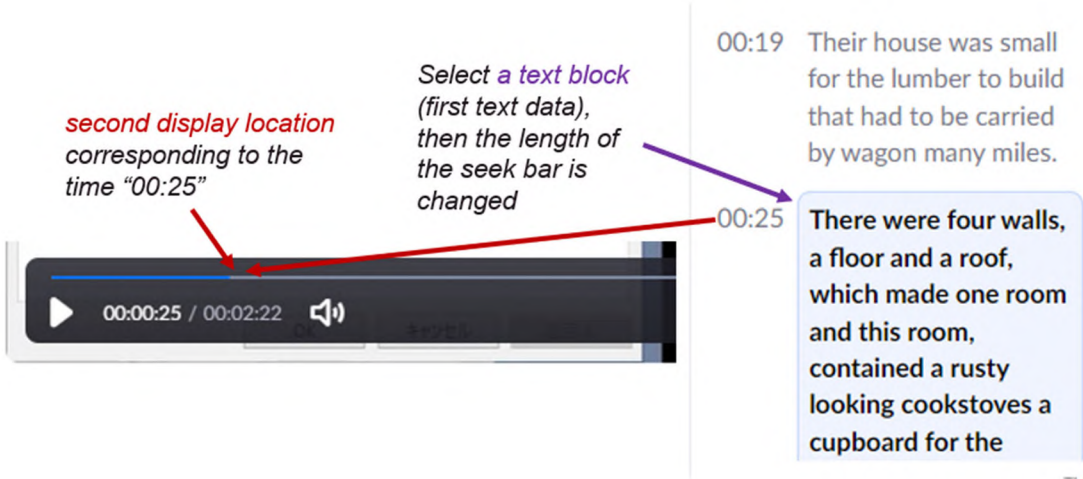
| Claims of US Patent No. 11,289,093                                            | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                               |  <p>As shown in the figures above, a graphical control region (e.g., a seek bar) is displayed at the bottom of the video playback area and sets playback position in a total playback time of the voice data (e.g., 00:02:22). For example, the seek bar is displayed at a first display location (e.g., the seek bar at the time 00:00:04).</p> |
| 1[e] receive selection of first text data from the text data being displayed; | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes circuitry configured to receive selection of first text data from the text data being displayed.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                   |

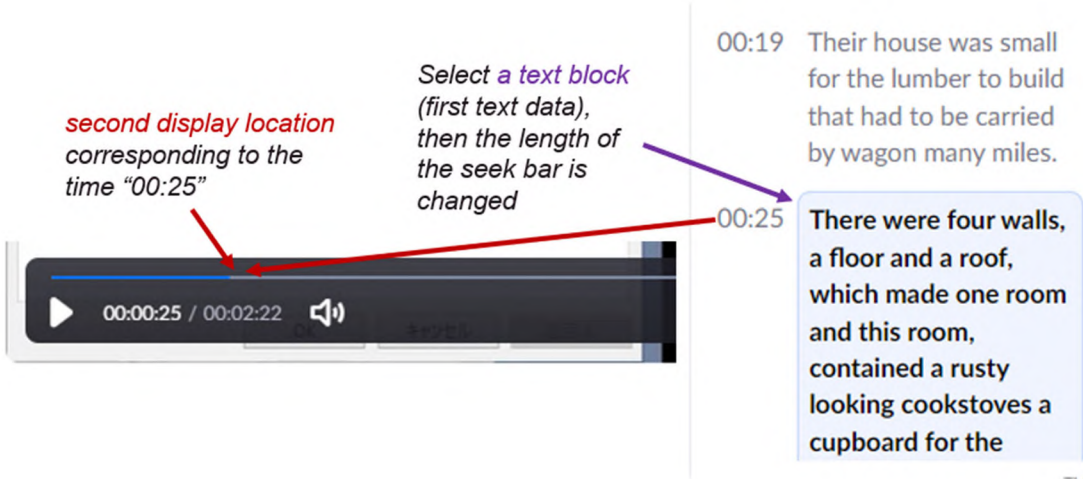
| Claims of US Patent No. 11,289,093                                                                                                                                                                                                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                          |  <p>As shown in the figure above, in response to receiving a selection of first text data (e.g., a text block at timestamp 00:25) from a text display area, the seek bar is changed to a time position corresponding to the time information associated with the selected first text data.</p>                                                                 |
| <p>1[f] determine, by referring to the time information, a second display location which is different from the first display location, the second display location corresponding to the time information of the first text data; and</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes circuitry configured to determine, by referring to the time information, a second display location which is different from the first display location, the second display location corresponding to the time information of the first text data.</p> <p>A non-limiting example is shown below:</p> |

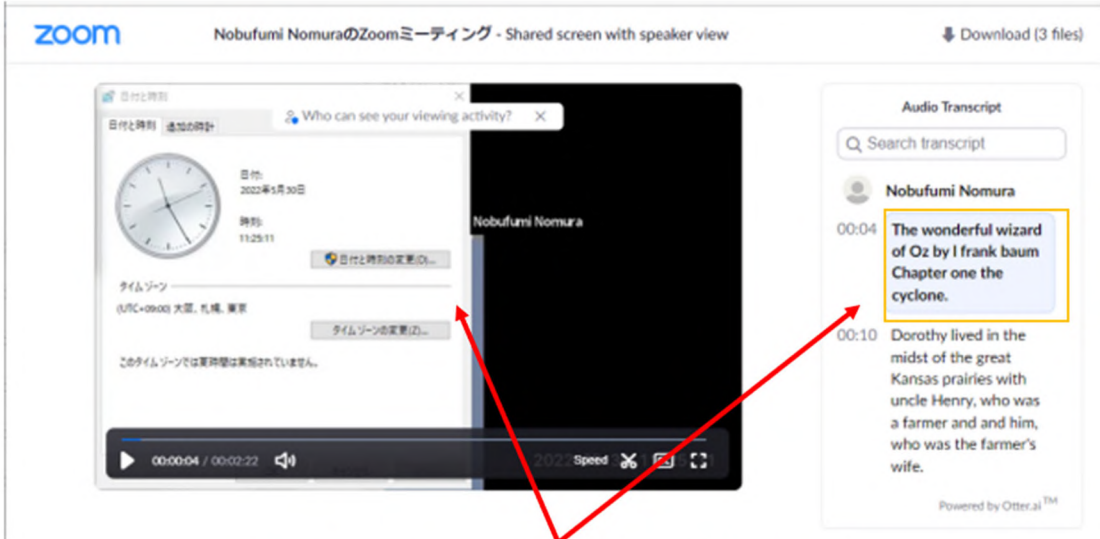
| Claims of US Patent No. 11,289,093                                                                      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         |  <p>As shown in the figure above, in response to receiving a selection of first text data (e.g., a text block at timestamp 00:25) from a text display area, the seek bar is changed to a second display location (e.g., the seek bar at the time 00:00:25) corresponding to the time information (e.g., timestamp 00:25 next to the selected text block) associated with the selected first text data.</p> |
| <p>1[g] control the display to display the graphical control region at the second display location.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes circuitry configured to control the display to display the graphical control region at the second display location.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                          |

| Claims of US Patent No. 11,289,093                                                                                                                                                     | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                        |  <p>second display location corresponding to the time "00:25"</p> <p>Select a text block (first text data), then the length of the seek bar is changed</p> <p>00:19 Their house was small for the lumber to build that had to be carried by wagon many miles.</p> <p>00:25 There were four walls, a floor and a roof, which made one room and this room, contained a rusty looking cookstoves a cupboard for the</p> <p>As shown in the figure above, when selection of a text block is received from a text display area, the seek bar is changed to a second display location (e.g., the seek bar at the time 00:00:25).</p> |
| <p>2. The display control apparatus of claim 1, wherein the circuitry is further configured to start playback of the voice data from a time that the first text data is generated.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the display control apparatus of claim 1, where the circuitry is further configured to start playback of the voice data from a time that the first text data is generated.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                                                                                                                                             |

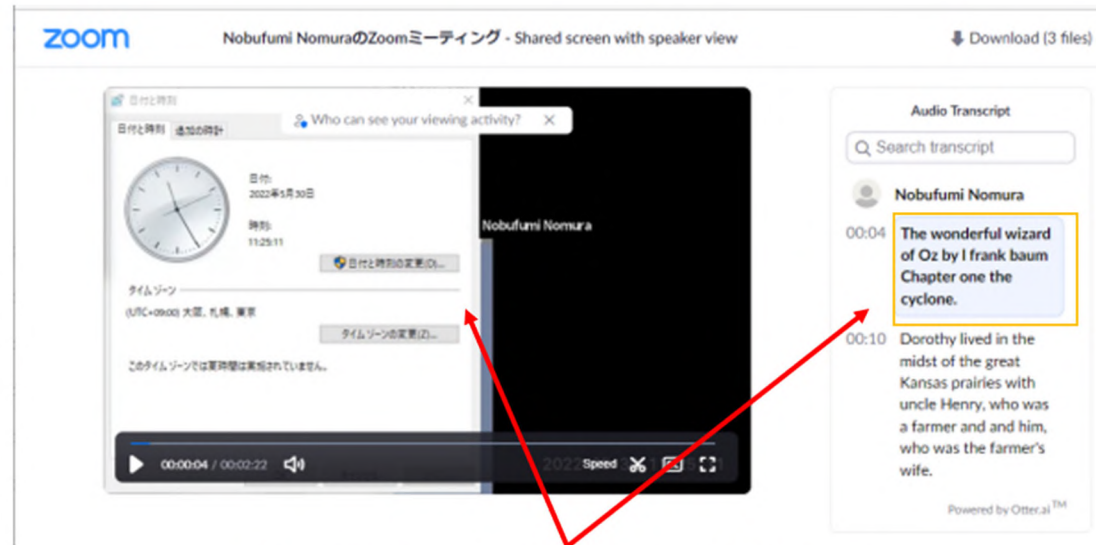
| Claims of US Patent No. 11,289,093                                                                                                                | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                   |  <p><i>second display location corresponding to the time "00:25"</i></p> <p><i>Select a text block (first text data), then the length of the seek bar is changed</i></p> <p>00:19 Their house was small for the lumber to build that had to be carried by wagon many miles.</p> <p>00:25 There were four walls, a floor and a roof, which made one room and this room, contained a rusty looking cookstoves a cupboard for the</p> <p>As shown in the figure above, in response to receiving a selection of first text data (e.g., a text block at timestamp 00:25) from a text display area, the seek bar is changed to a second display location (e.g., the seek bar at the time 00:00:25) and the client, executed by the circuitry, is configured to start playback of the voice data from a time that the first text data is generated (e.g., a voice recording at timestamp 00:25).</p> |
| <p>3. The display control apparatus of claim 2, wherein the graphical control region further indicates a playback progress of the voice data.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the display control apparatus of claim 2, where the graphical control region further indicates a playback progress of the voice data.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Claims of US Patent No. 11,289,093                                                                      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         |  <p>As shown in the figure above, the graphical control region (e.g., the length of the seek bar color coded in blue) further indicates a playback progress of the voice data.</p>                  |
| <p>4. The display control apparatus of claim 3, wherein the graphical control region is a seek bar.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the display control apparatus of claim 3, where the graphical control region is a seek bar.</p> <p>A non-limiting example is shown below:</p> |

| Claims of US Patent No. 11,289,093                                                                                                                                                                                                                   | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                              |
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|                                                                                                                                                                                                                                                      |  <p>As shown in the figure above, the graphical control region is a seek bar.</p>                                                                                                                                                                                                                                                  |
| <p>5[a] The display control apparatus of claim 1, wherein the circuitry is further configured to:</p> <p>receive, from the server that manages content data generated during the event, screenshot image data associated with the text data; and</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the display control apparatus of claim 1, where the circuitry is further configured to receive, from the server that manages content data generated during the event, screenshot image data associated with the text data.</p> <p>A non-limiting example is shown below:</p> |

| Claims of US Patent No. 11,289,093                                                                                                                          | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                                                                                                                                                             | <div>  </div> <p><i>Screenshot image data synchronized with the text data.</i></p> <p>The figure above depicts the playback interface for a Zoom cloud video conference recording, in which the video player and Audio Transcript panel are rendered from content served by Zoom’s cloud infrastructure to the user’s client (e.g., Zoom Meetings).</p> <p>The user’s client (e.g., Zoom Meetings), executed by the circuitry, receives screenshot image data (e.g., a screenshot image captured from the video conference recording) associated with the text data and time information from the server (e.g., Zoom’s remote cloud servers).</p> <p><i>See also, e.g., supra Claim 1[b].</i></p> |
| <p>5[b] control the display to further display the screenshot image data, in the order according to the time information.</p> | <p>A Zoom user’s device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the display control apparatus of claim 1, where the circuitry is configured to control the display to further display the screenshot image data, in the order according to the time information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

A non-limiting example is shown below:

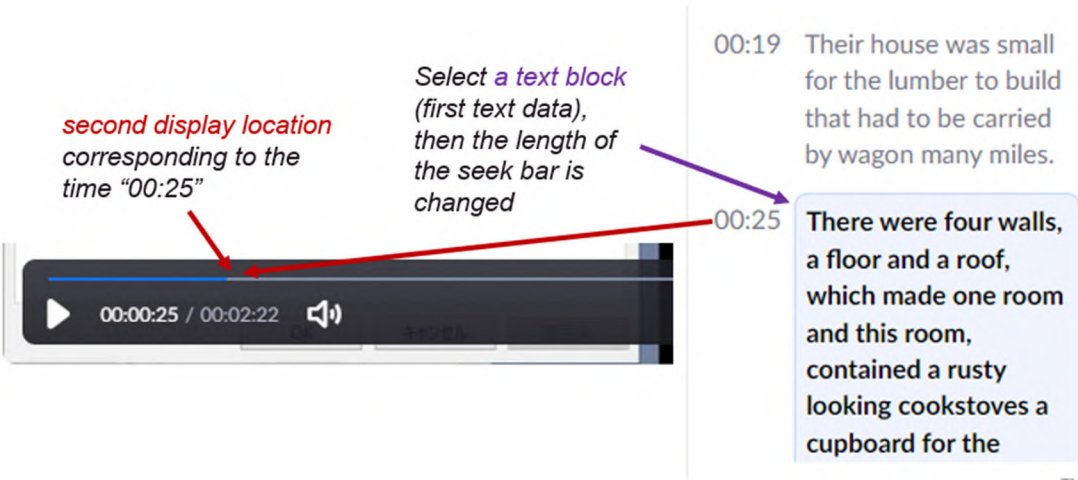


*Screenshot image data synchronized with the text data.*

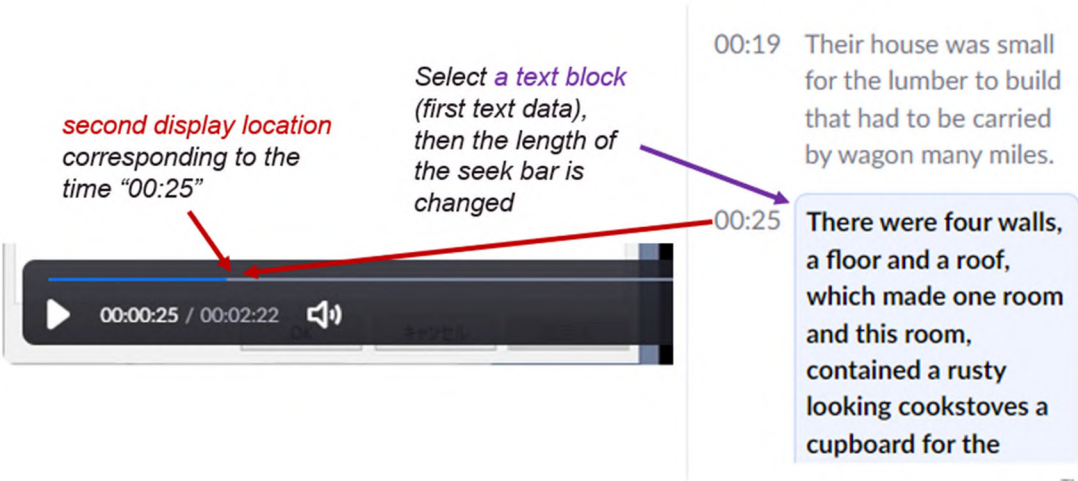
The figure above depicts the playback interface for a Zoom cloud video conference recording, in which the video player and Audio Transcript panel are rendered from content served by Zoom's cloud infrastructure to the user's client (e.g., Zoom Meetings).

The user's client (e.g., Zoom Meetings), executed by the circuitry, displays screenshot image data (e.g., a screenshot image captured from the video conference recording) associated with the text data and time information from Zoom's remote cloud servers. Because the video conference is recorded with video image data and voice data in temporal order, on information and belief, the screenshot image data is displayed in the order according to the time information.

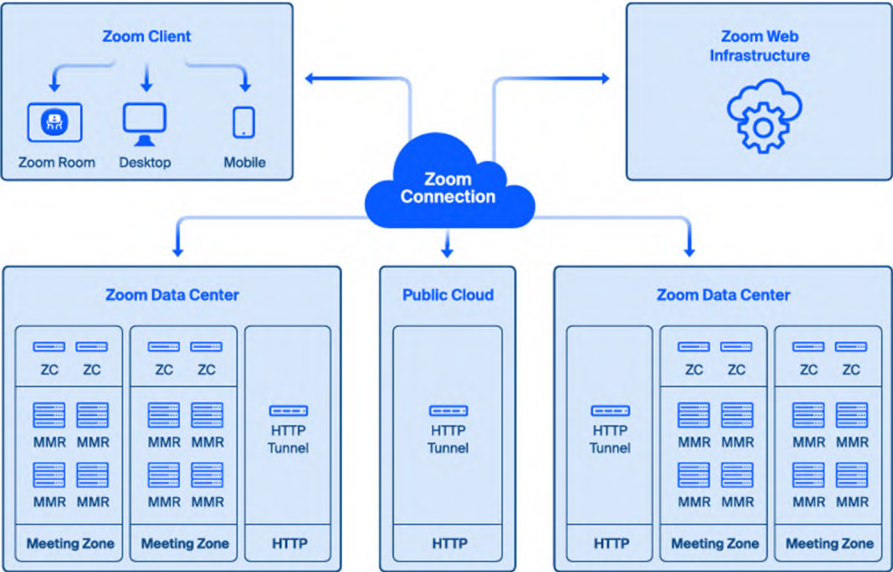
*See also, e.g., supra Claim 1[b].*

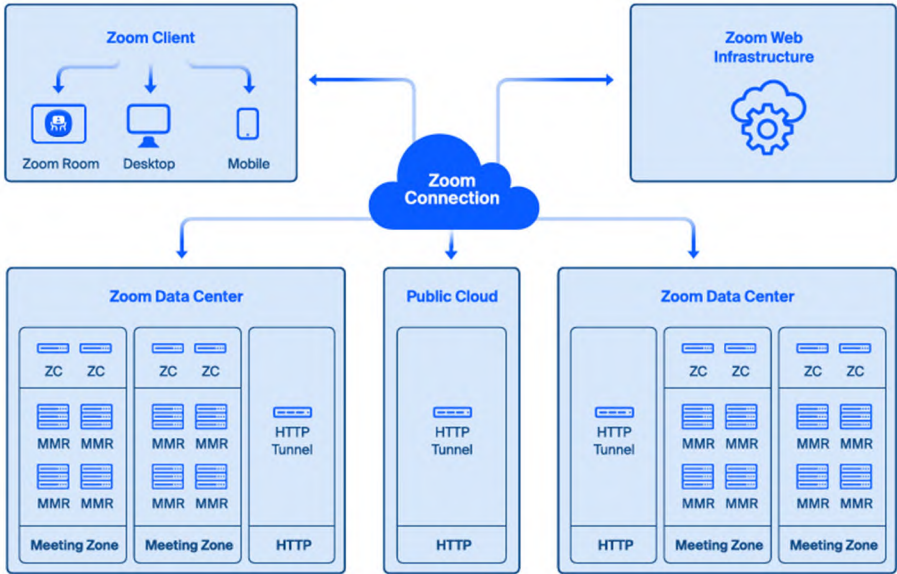
| Claims of US Patent No. 11,289,093                                                                                                                                                                                                                                                                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <p>6[a] The display control apparatus of claim 1, wherein the circuitry is further configured to:</p> <p>in response to selection of the first text data, obtain, from the first text data, a content processing identifier for identifying conversion processing that has been applied to generate the first text data from corresponding voice data;</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the display control apparatus of claim 1, where the circuitry is further configured to, in response to selection of the first text data, obtain, from the first text data, a content processing identifier for identifying conversion processing that has been applied to generate the first text data from corresponding voice data.</p> <p>A non-limiting example is shown below:</p>  <p>As shown in the figure above, in response to receiving a selection of first text data (e.g., a text block at timestamp 00:25) from a text display area, the seek bar is changed to a second display location (e.g., the seek bar at the time 00:00:25).</p> <p>On information and belief, the client, executed by the circuitry, is configured to obtain a content processing identifier for identifying conversion processing that has been applied to generate the first text data (e.g., a text block at timestamp 00:25) from corresponding voice data recorded in Zoom's cloud servers. See <a href="https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0064927">https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0064927</a>, accessed on July 9, 2026.</p> |

| Claims of US Patent No. 11,289,093                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <p>6[b] obtain the time information using the content processing identifier; and</p>                             | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the display control apparatus of claim 1, where the circuitry is further configured to obtain the time information using the content processing identifier.</p> <p>On information and belief, the client such as Zoom Meetings, executed by the circuitry, is configured to obtain the time information using the content processing identifier.</p> <p>See <a href="https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0064927">https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0064927</a>, accessed on July 9, 2026.</p> <p><i>See also, e.g., supra</i> Claim 6[a].</p> |
| <p>6[c] determine the second display location of the graphical control region based on the time information.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed includes circuitry configured to determine, by referring to the time information, a second display location which is different from the first display location, the second display location corresponding to the time information of the first text data.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                                                                                                             |

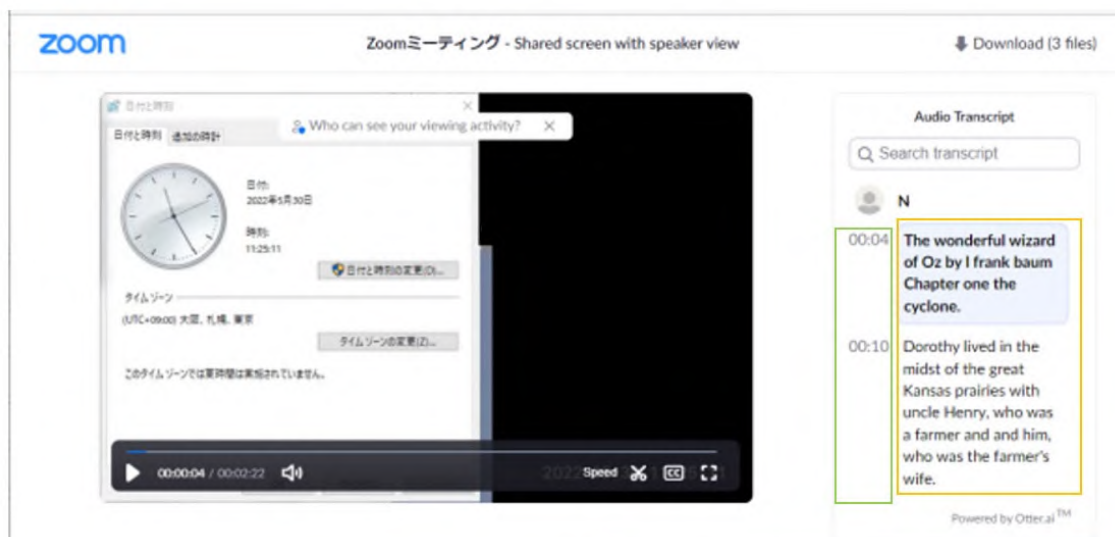
| Claims of US Patent No. 11,289,093                                                                                     | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                                                                                                                        |  <p>As shown in the figure above, in response to receiving a selection of first text data (e.g., a text block at timestamp 00:25) from a text display area, the seek bar is changed to a second display location (e.g., the seek bar at the time 00:00:25) by referring to the time information (e.g., timestamp 00:25 of the selected text block) associated with the selected first text data (e.g., the selected text block).</p> <p><i>See also, e.g., supra Claims 1[f] and 1[g].</i></p> |
| <p>7. The display control apparatus of claim 1, wherein the first text data corresponds to one sentence of speech.</p> | <p>A Zoom user's device such as DTEN D7, a desktop computer, laptop, and/or mobile device with the Accused Instrumentality installed is the display control apparatus of claim 1, where the first text data corresponds to one sentence of speech.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                                                                             |

| Claims of US Patent No. 11,289,093 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                                    |  <p>As shown in the figure above, the first text data corresponds to one sentence of speech.</p> <p><i>See also, e.g., supra</i> Claims 1[e], 1[f] and 1[g].</p>                                                                                                                                                                          |
| 8 [pre] A system, comprising:      | <p>To the extent preamble is limiting, a system that incorporates the Accused Instrumentality directly infringes claim 8 of the '093 Patent. For example, a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device and a Zoom's server constitute a system that incorporates the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms.</p> <p>A non-limiting example is shown below:</p> |

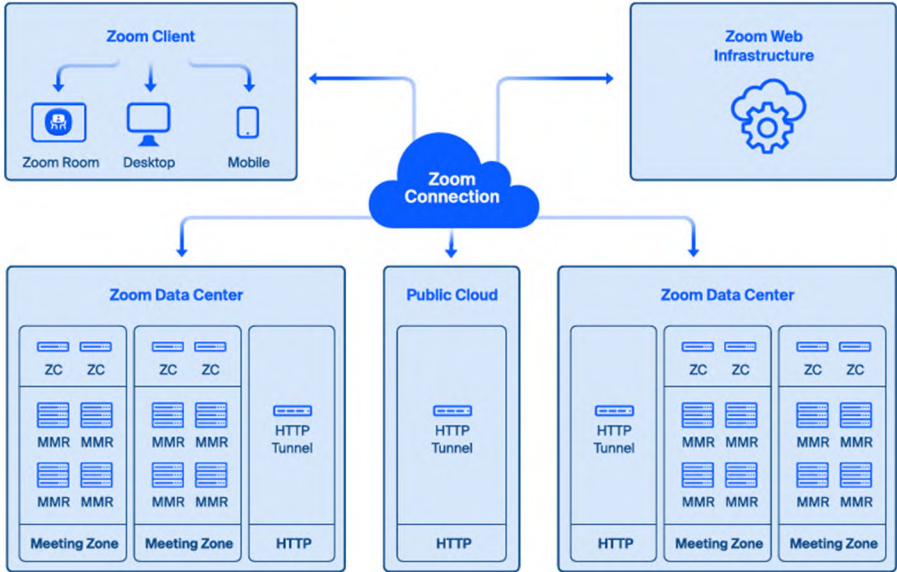
| Claims of US Patent No. 11,289,093                        | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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|                                                           |  <p>The diagram illustrates the Zoom Connection Process. At the top left, a box labeled 'Zoom Client' contains icons for 'Zoom Room', 'Desktop', and 'Mobile'. At the top right, a box labeled 'Zoom Web Infrastructure' contains a gear icon. In the center is a cloud icon labeled 'Zoom Connection'. Arrows point from the Zoom Client and Zoom Web Infrastructure to the Zoom Connection cloud. Below the cloud, three boxes represent different network paths: 'Zoom Data Center' (left), 'Public Cloud' (center), and 'Zoom Data Center' (right). Each of these boxes contains a grid of server icons labeled 'ZC' (Zoom Client), 'MMR' (Meeting Media Resource), and 'HTTP Tunnel'. The left and right Zoom Data Center boxes also include a 'Meeting Zone' label at the bottom. Arrows point from the Zoom Connection cloud to each of these three boxes.</p> <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p> <p>A Zoom hardware partner device, such as the DTEN D7 in Zoom Room or Zoom user's device (e.g., desktop or Mobile) with the Accused Instrumentality installed can communicate with a Zoom's server through Zoom Connection (e.g., a cloud network) to establish a video conference session.</p> |
| <p>8[a] the display control apparatus of claim 1; and</p> | <p>The system includes the display control apparatus of claim 1. For example, a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device is a display control apparatus that incorporates the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms.</p> <p><i>See, e.g., supra</i> Claims 1[pre] to 1[g].</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

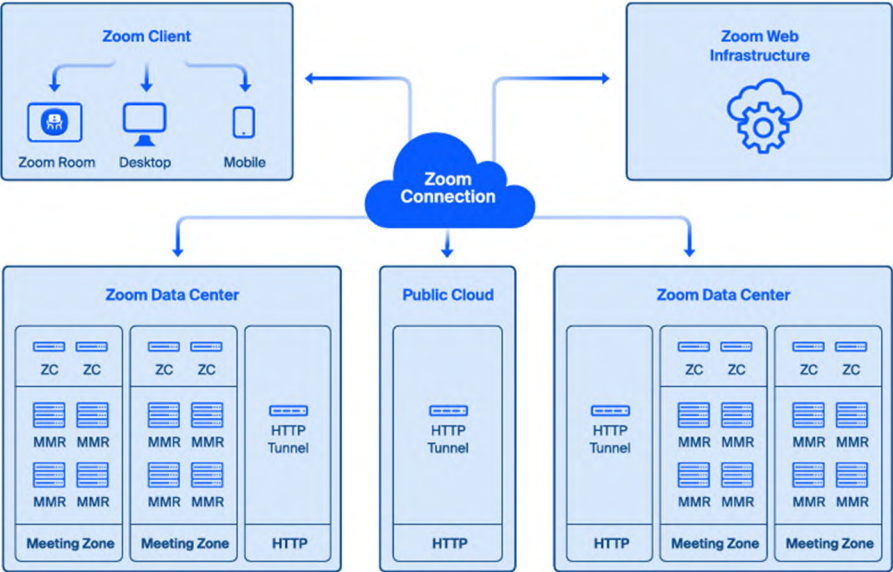
| Claims of US Patent No. 11,289,093                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <p>8[b] the server which is communicably connected with the display control apparatus, the server including:</p> | <p>The system includes a server which is communicably connected with the display control apparatus.</p> <p>A non-limiting example is shown below:</p>  <p>The diagram illustrates the Zoom Connection Process. At the top left, a box labeled 'Zoom Client' contains icons for 'Zoom Room', 'Desktop', and 'Mobile'. At the top right, a box labeled 'Zoom Web Infrastructure' contains a gear icon. In the center is a cloud icon labeled 'Zoom Connection'. Below these are three main components: a 'Zoom Data Center' on the left, a 'Public Cloud' in the middle, and another 'Zoom Data Center' on the right. Each 'Zoom Data Center' box contains a grid of server icons labeled 'ZC' (Zoom Client), 'MMR' (Zoom Multimedia Router), and 'HTTP Tunnel', along with a 'Meeting Zone' label. The 'Public Cloud' box contains an 'HTTP Tunnel' and an 'HTTP' label. Arrows indicate communication paths: from the Zoom Client to the Zoom Connection cloud, from the Zoom Connection cloud to the Zoom Web Infrastructure, and from the Zoom Connection cloud to each of the two Zoom Data Centers and the Public Cloud.</p> <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p> <p>A Zoom hardware partner device, such as the DTEN D7 in Zoom Room or a Zoom user's device (e.g., desktop or Mobile) with the Accused Instrumentality installed, for example, is a display control apparatus, which can communicate with a Zoom's server (e.g., Zoom Meeting Zone, Zoom Zone Controller, Zoom Multimedia Router, Zoom HTTP Tunnel, and the like) through Zoom Connection (e.g., a cloud network) to establish a video conference session.</p> |

| Claims of US Patent No. 11,289,093                                                                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                                                                                                                                                            | <p><i>See also, e.g., supra</i> Claim 1[b].</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>8[c] a memory that stores, for each event, voice data recorded during the event, text data converted from the voice data, and time information; and</p> | <p>Zoom’s server includes a memory that stores, for each event, voice data recorded during the event, text data converted from the voice data, and time information.</p> <p>A non-limiting example is shown below:</p> <div> <h2>Using audio transcription for cloud recordings</h2> </div> <div> <p>English (Original) 2026-02-23 Copy Permalink</p> </div> <p>Audio transcription automatically transcribes the audio of a meeting or webinar that you record to the cloud. After the transcript is processed, it appears as a separate <b>VTT</b> file in the <a href="#">list of recorded meetings</a>. Additionally, you have the option to display the transcript text within the video itself, similar to a closed caption display. When <a href="#">sharing a cloud recording</a>, you can enable or disable if viewers can see the transcript.</p> <p>The transcript is divided into sections, each with a timestamp showing how far into the recording that portion was made. You can edit the text to more accurately capture the words or to add capitalization and punctuation, which are not included in the transcript.</p> <p>Transcripts are <a href="#">supported in multiple languages</a> and <a href="#">email notifications for audio transcriptions</a> can also be enabled.</p> <p>Users can also <a href="#">enable automated captions</a> for live captioning during the meeting, instead of waiting for the transcript to be generated afterwards.</p> <p>Source: <a href="https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0064927">https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0064927</a>, accessed on July 9, 2026.</p> <p>Zoom’s servers provide audio transcription for cloud recordings. For example, Zoom’s servers can record the audio during the meeting, perform the speech recognition processing, store the resulting transcript file in a memory of Zoom’s cloud servers, and then serve it to the client upon request during playback. Zoom’s servers manage content data (e.g., the video content and transcript content) generated during the meeting event, and the transcript is divided into sections, each with a timestamp showing how far into the recording that portion was made.</p> |

| Claims of US Patent No. 11,289,093                                                                                                   | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|                                                                                                                                      | <p><i>See also, e.g., supra</i> Claim 1[b].</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>8[d] another circuitry configured to transmit information on the event stored in the memory to the display control apparatus.</p> | <p>Zoom’s server includes another circuitry configured to transmit information on the event stored in the memory to the display control apparatus.</p> <p>A non-limiting example is shown below:</p> <div>  <p>The screenshot shows a Zoom meeting interface. On the left, there is a video player with a play button, a progress bar at 00:00:04 / 00:02:22, and a volume icon. The video content is mostly black. To the right of the video player is an 'Audio Transcript' sidebar. It has a search bar and a list of transcript entries. Two entries are highlighted with yellow boxes: one at 00:04 and another at 00:10. The text in the transcript is: 'The wonderful wizard of Oz by I frank baum Chapter one the cyclone.' and 'Dorothy lived in the midst of the great Kansas prairies with uncle Henry, who was a farmer and and him, who was the farmer's wife.' Below the transcript, it says 'Powered by Otter.ai™'. A blue box with white text is overlaid on the bottom right of the transcript area, stating: 'Transcribed text with time information is displayed synchronously next to the video.'</p> </div> <p>The figure above depicts a Zoom user client (e.g., Zoom Meetings) installed on a display control apparatus (e.g., a Zoom user device) receiving text data and time information from Zoom’s cloud servers. Accordingly, Zoom’s cloud servers include circuitry configured to transmit information (e.g., text data and/or time information) on the event stored in the memory to the display control apparatus.</p> |

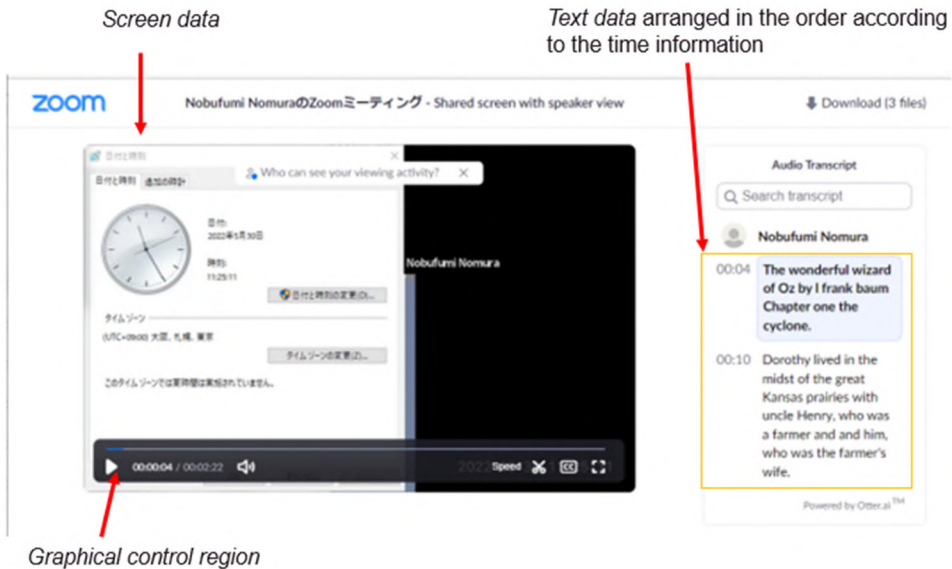
| Claims of US Patent No. 11,289,093                                                                                                                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                                                                                                                                                                                                            | <i>See also, e.g., supra</i> Claim 1[b].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>9. The system of claim 8, further comprising:</p> <p>a communication terminal communicably connected with the server and configured to transmit voice data collected during an event to the server.</p> | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 8, further comprising a communication terminal communicably connected with the server and configured to transmit voice data collected during an event to the server.</p> <p>On information and belief, the system includes a communication terminal communicably connected with the server and configured to transmit voice data collected during an event (e.g., a meeting) to the server (e.g., Zoom's server).</p> <p><i>See also, e.g., supra</i> Claim 1[pre].</p> |
| <p>10[pre] A system, comprising:</p>                                                                                                                                                                       | <p>To the extent preamble is limiting, a system that incorporates the Accused Instrumentality directly infringes claim 10 of the '093 Patent. For example, a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device and a Zoom's server constitute a system that incorporates the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                                                     |

| Claims of US Patent No. 11,289,093                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                            |  <p>The diagram illustrates the Zoom Connection Process. At the top left, a box labeled 'Zoom Client' contains icons for 'Zoom Room', 'Desktop', and 'Mobile'. At the top right, a box labeled 'Zoom Web Infrastructure' contains a gear icon. A central cloud icon labeled 'Zoom Connection' is connected to both the Zoom Client and Zoom Web Infrastructure boxes. Below the Zoom Connection cloud, there are three main components: a 'Zoom Data Center' on the left, a 'Public Cloud' in the center, and another 'Zoom Data Center' on the right. Each Zoom Data Center contains multiple 'Meeting Zone' blocks, each with 'ZC' (Zoom Client) and 'MMR' (Meeting Media Resource) icons, and an 'HTTP Tunnel' block. The Public Cloud contains an 'HTTP Tunnel' block. Arrows indicate data flow between the Zoom Client, Zoom Web Infrastructure, Zoom Connection, and the various data centers and meeting zones.</p> <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p> <p>A Zoom hardware partner device, such as the DTEN D7 in Zoom Room or a Zoom user's device (e.g., desktop or Mobile) with the Accused Instrumentality installed can communicate with a Zoom's server through Zoom Connection (e.g., a cloud network) to establish a video conference session.</p> <p><i>See, e.g., supra</i> Claim 8[pre].</p> |
| 10[a] a memory that stores voice data recorded during the event, text data | Zoom's server includes a memory that stores voice data recorded during the event, text data converted from the voice data, and time information for an event.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Claims of US Patent No. 11,289,093                                              | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| converted from the voice data, and time information for an event; and           | <i>See, e.g., supra</i> Claim 8[c].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 10[b] first circuitry and second circuitry configured to cooperate together to: | <p>The system includes first circuitry and second circuitry configured to cooperate together.</p> <p>A non-limiting example is shown below:</p>  <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p> <p>For example, the system includes a Zoom’s server (e.g., first circuitry) and a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user’s device (e.g., second circuitry).</p> |

| Claims of US Patent No. 11,289,093                                                                                                                                                                                                 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                     |
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|                                                                                                                                                                                                                                    | The Zoom hardware partner device, such as the DTEN D7 in Zoom Room or a Zoom user's device (e.g., desktop or Mobile) with the Accused Instrumentality installed is configured to cooperate together with the Zoom's server (e.g., first circuitry) through Zoom Connection (e.g., a cloud network) to establish a video conference session.                                 |
| 10[c] control a display to:<br><br>display text data in an order according to the time information, and                                                                                                                            | The system includes first circuitry and second circuitry configured to cooperate together to control a display to display text data in an order according to the time information.<br><br><i>See, e.g., supra</i> Claims 1[pre] to 1[c].                                                                                                                                    |
| 10[d] display a graphical control region, at a first display location, that sets playback position in a total playback time of the voice data;                                                                                     | The system includes first circuitry and second circuitry configured to cooperate together to control a display to display a graphical control region, at a first display location, that sets playback position in a total playback time of the voice data.<br><br><i>See, e.g., supra</i> Claims 1[pre] to 1[d].                                                            |
| 10[e] determine, by referring to the time information, a second display location which is different from the first display location, the second display location corresponding to the time information of the first text data; and | The system includes first circuitry and second circuitry configured to cooperate together to determine, by referring to the time information, a second display location which is different from the first display location, the second display location corresponding to the time information of the first text data.<br><br><i>See, e.g., supra</i> Claims 1[pre] to 1[f]. |
| 10[f] control the display to display the graphical control region at the second display location.                                                                                                                                  | The system includes first circuitry and second circuitry configured to cooperate together to control the display to display the graphical control region at the second display location.<br><br><i>See, e.g., supra</i> Claims 1[pre] to 1[g].                                                                                                                              |
| 11[a] The system of claim 10, wherein the first circuitry is further configured to transmit screen data generated based on the                                                                                                     | A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 10, where the first                                                                                                                                                   |

| Claims of US Patent No. 11,289,093                                                | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <p>information on the event stored in the memory to the second circuitry, and</p> | <p>circuitry is further configured to transmit screen data generated based on the information on the event stored in the memory to the second circuitry.</p> <p>For example, the first circuitry (e.g., a Zoom’s server) is further configured to transmit screen data generated based on the information on the event (e.g., a recorded Zoom meeting) stored in the memory to the second circuitry (e.g., a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user’s device with the Accused Instrumentality installed).</p> <div> <p>The image is a screenshot of a Zoom web client interface. At the top, it says 'zoom' and 'Nobufumi NomuraのZoomミーティング - Shared screen with speaker view'. Below this, there's a 'Download (3 files)' link. The main content area shows a shared screen with a clock and a transcript panel. A red arrow labeled 'Screen data' points to the top of the shared screen. The transcript panel on the right shows a search bar and two entries: '00:04 The wonderful wizard of Oz by l frank baum Chapter one the cyclone.' and '00:10 Dorothy lived in the midst of the great Kansas prairies with uncle Henry, who was a farmer and and him, who was the farmer's wife.' The bottom of the screen shows a video player with a progress bar and controls.</p> </div> <p>As shown in the figure above, a Zoom server (the first circuitry) is further configured to transmit screen data generated based on the information on the event (e.g., a recorded Zoom video conference) stored in the memory (e.g., a memory storage of the Zoom server) to a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user’s device with the Accused Instrumentality installed (the second circuitry)</p> <p><i>See also, e.g., supra Claims 5[a] and 10[pre] to 10[f].</i></p> |

| Claims of US Patent No. 11,289,093                                                                                                                                                                                                                                                 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <p>11[b] the second circuitry displays a screen based on the screen data, the screen including the text data arranged in the order according to the time information, and the graphical control region that sets playback position in a total playback time of the voice data.</p> | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 10, where the second circuitry displays a screen based on the screen data, the screen including the text data arranged in the order according to the time information, and the graphical control region that sets playback position in a total playback time of the voice data.</p> <p>A non-limiting example is shown below:</p>  <p>As shown in the figure above, a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed (the second circuitry) displays a screen based on the screen data, and the screen includes the text data arranged in the order according to the time information, and the graphical control region (e.g., a seek bar) that sets playback position in a total playback time of the voice data.</p> <p>See also, e.g., <i>supra</i> Claims 1[d], 5[b] and 10[pre] to 10[f].</p> |

| Claims of US Patent No. 11,289,093                                                                                                                                                                                                                                                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <p>12[a] The system of claim 11, wherein the second circuitry is further configured to:</p> <p>in response to selection of the first text data, obtain, from the first text data, a content processing identifier for identifying conversion processing that has been applied to generate the first text data from corresponding voice data;</p> | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 11, where the second circuitry is further configured to, in response to selection of the first text data, obtain, from the first text data, a content processing identifier for identifying conversion processing that has been applied to generate the first text data from corresponding voice data.</p> <p><i>See also, e.g., supra Claims 6[a], 10[pre] to 10[f], and 11[a] to 11[b].</i></p> |
| <p>12[b] transmit the content processing identifier to the first circuitry to obtain the time information; and</p>                                                                                                                                                                                                                               | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 11, where the second circuitry is further configured to transmit the content processing identifier to the first circuitry to obtain the time information.</p> <p><i>See also, e.g., supra Claims 6[b], 10[pre] to 10[f], and 11[a] to 11[b].</i></p>                                                                                                                                              |
| <p>12[c] determine the second display location of the graphical control region based on the time information.</p>                                                                                                                                                                                                                                | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 11, where the second circuitry is further configured to determine the second display location of the graphical control region based on the time information.</p> <p><i>See also, e.g., supra Claims 6[c], 10[pre] to 10[f], and 11[a] to 11[b].</i></p>                                                                                                                                           |
| <p>13[a] The system of claim 10, wherein the first circuitry is further configured to transmit the information on the event to the second circuitry, and</p>                                                                                                                                                                                     | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 10, where the first circuitry is further configured to transmit the information on the event stored in the memory to the second circuitry.</p> <p>For example, the first circuitry (e.g., a Zoom's server) is further configured to transmit the information (e.g., time information, content information, image information, voice information or the like) on the event (e.g., a</p>            |

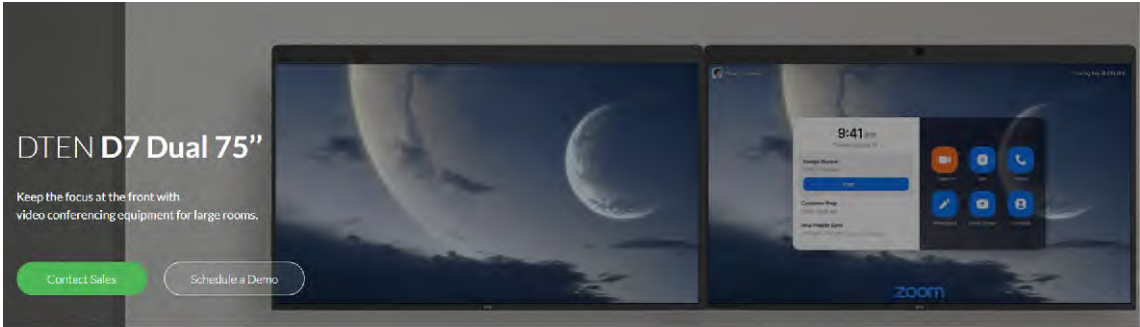
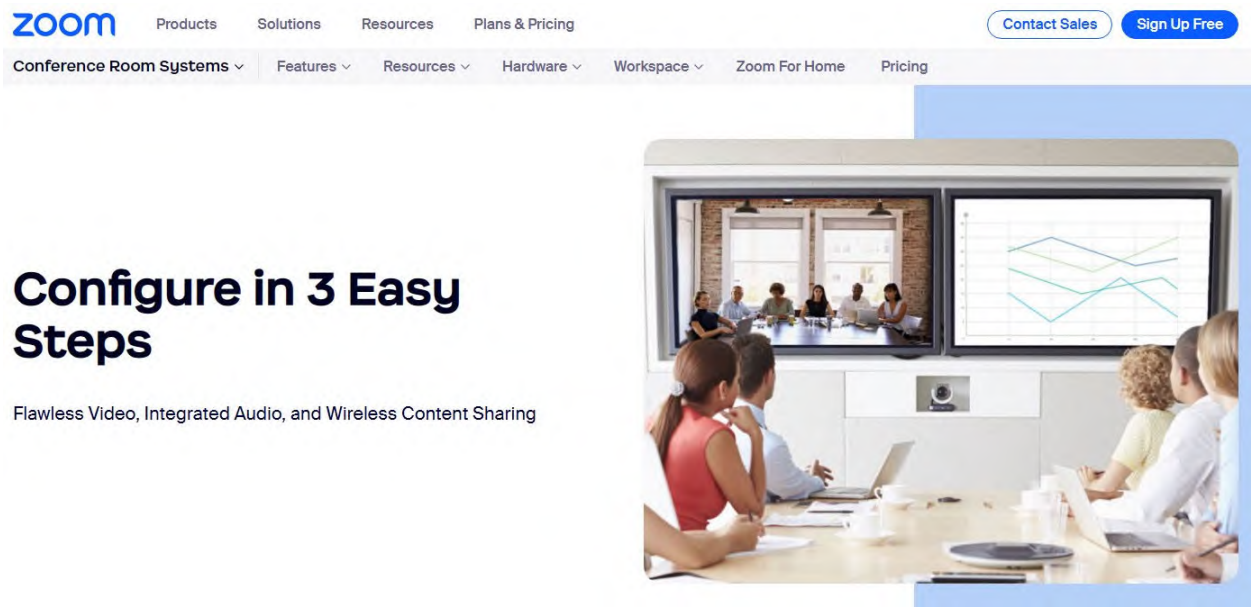
| Claims of US Patent No. 11,289,093                                                                                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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|                                                                                                                                                                                  | <p>recorded Zoom meeting) to the second circuitry (e.g., a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed).</p> <div> <p>The figure shows a Zoom meeting interface. The top header bar contains the Zoom logo, the meeting title 'Nobufumi NomuraのZoomミーティング - Shared screen with speaker view', and a 'Download (3 files)' button. The main area is split into a left sidebar with meeting details (date, time, participants) and a right sidebar with an 'Audio Transcript' section. The transcript shows text entries with timestamps: '00:04 The wonderful wizard of Oz by Frank Baum Chapter one the cyclone.' and '00:10 Dorothy lived in the midst of the great Kansas prairies with uncle Henry, who was a farmer and and him, who was the farmer's wife.' The bottom of the interface features a video player with a progress bar and controls. Red arrows point to these three areas with labels: 'Screen data' for the header, 'Text data arranged in the order according to the time information' for the transcript, and 'Graphical control region' for the video player controls.</p> </div> <p>As shown in the figure above, a Zoom server (the first circuitry) further transmits the information (e.g., time information, content information, image information, voice information, text information converted from the voice information or the like) on the event (e.g., a recorded Zoom video conference) to a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed (the second circuitry).</p> <p><i>See also, e.g., supra Claims 5[a], 10[pre] to 10[f], and 11[a].</i></p> |
| <p>13[b] the second circuitry generates screen data based on the information on the event, and controls the display to display a screen based on the screen data, the screen</p> | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 10, where the second circuitry generates screen data based on the information on the event, and controls the display to display a screen based on the screen data, the screen including the text data arranged in the order according to</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| Claims of US Patent No. 11,289,093                                                                                                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <p>including the text data arranged in the order according to the time information, and the graphical control region that sets playback position in a total playback time of the voice data.</p> | <p>the time information, and the graphical control region that sets playback position in a total playback time of the voice data.</p> <p>A non-limiting example is shown below:</p> <div> <p>The screenshot shows a Zoom meeting interface. On the left, a window titled 'Nobufumi NomuraのZoomミーティング - Shared screen with speaker view' displays a clock and meeting details. A red arrow labeled 'Screen data' points to this window. On the right, an 'Audio Transcript' window shows text data arranged in order according to time information, with a red arrow labeled 'Text data arranged in the order according to the time information' pointing to it. At the bottom, a video player interface shows a seek bar with a red arrow labeled 'Graphical control region' pointing to it. The seek bar displays '00:00:04 / 00:02:22'.</p> </div> <p>As shown in the figure above, a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed (the second circuitry) generates screen data based on the information (e.g., time information, content information, image information, voice information, text information converted from the voice information or the like) on the event (e.g., a recorded Zoom meeting) from the Zoom server (the first circuitry); and controls the display to display a screen based on the screen data; and the screen includes the text data arranged in the order according to the time information; and the graphical control region (e.g., a seek bar) that sets playback position in a total playback time of the voice data.</p> <p><i>See also, e.g., supra Claims 1[d], 5[b], 10[pre] to 10[f], and 11[b].</i></p> |

| Claims of US Patent No. 11,289,093                                                                                                                                                                                                                                                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <p>14[a] The system of claim 13, wherein the second circuitry is further configured to:</p> <p>in response to selection of the first text data, obtain, from the first text data, a content processing identifier for identifying conversion processing that has been applied to generate the first text data from corresponding voice data;</p> | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 13, where the second circuitry is further configured to, in response to selection of the first text data, obtain, from the first text data, a content processing identifier for identifying conversion processing that has been applied to generate the first text data from corresponding voice data.</p> <p><i>See also, e.g., supra</i> Claims 6[a], 10[pre] to 10[f], 11[a] to 11[b], 12[a], 13[a] and 13[b].</p> |
| <p>14[b] obtain the time information using the content processing identifier; and</p>                                                                                                                                                                                                                                                            | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 13, where the second circuitry is further configured to obtain the time information using the content processing identifier.</p> <p><i>See also, e.g., supra</i> Claims 6[b], 10[pre] to 10[f], 11[a] to 11[b], 12[b], 13[a] and 13[b].</p>                                                                                                                                                                           |
| <p>14[c] determine the second display location of the graphical control region based on the time information.</p>                                                                                                                                                                                                                                | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 13, where the second circuitry is further configured to determine the second display location of the graphical control region based on the time information.</p> <p><i>See also, e.g., supra</i> Claims 6[c], 10[pre] to 10[f], 11[a] to 11[b], 12[c], 13[a] and 13[b].</p>                                                                                                                                           |
| <p>15[a] The system of claim 10, further comprising:</p> <p>a server including the first circuitry; and</p>                                                                                                                                                                                                                                      | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 10, where a server includes the first circuitry.</p> <p><i>See also, e.g., supra</i> Claims 10[pre] to 10[b].</p>                                                                                                                                                                                                                                                                                                     |

| Claims of US Patent No. 11,289,093                                                                                                                                                                                                                                                 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| 15[b] a display control apparatus communicably connected with the server, wherein                                                                                                                                                                                                  | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 10, where the system includes a display control apparatus communicably connected with the server.</p> <p><i>See also, e.g., supra</i> Claims 1[pre] to 1[b], and 10[pre] to 10[b].</p>                                                                                                                                                      |
| 15[c] the display control apparatus includes the second circuitry.                                                                                                                                                                                                                 | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 10, where the display control apparatus includes the second circuitry.</p> <p><i>See also, e.g., supra</i> Claims 1[pre] to 1[b], and 10[pre] to 10[b].</p>                                                                                                                                                                                 |
| 16[a] The system of claim 15, wherein the second circuitry of the display control apparatus is configured to control the display to display the text data in the order according to the time information, and display the graphical control region, at the first display location, | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 15, where the second circuitry of the display control apparatus is configured to control the display to display the text data in the order according to the time information, and display the graphical control region, at the first display location.</p> <p><i>See also, e.g., supra</i> Claims 1[pre] to 1[d], and 10[pre] to 10[d].</p> |
| 16[b] determine, by referring to the time information, the second display location; and                                                                                                                                                                                            | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 15, where the second circuitry of the display control apparatus is configured to determine, by referring to the time information, the second display location.</p> <p><i>See also, e.g., supra</i> Claims 1[pre] to 1[f], and 10[pre] to 10[e].</p>                                                                                         |
| 16[c] control the display to display the graphical control region at the second display location.                                                                                                                                                                                  | <p>A system including a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device with the Accused Instrumentality installed, together with a Zoom's server, is the system of claim 15, where the second circuitry of the display control apparatus is configured to control the display to display the graphical control region at the second display location.</p>                                                                                                                                                            |

| Claims of US Patent No. 11,289,093                   | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                                                      | <p><i>See also, e.g., supra</i> Claims 1[pre] to 1[g], and 10[pre] to 10[f].</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>17[pre] A display control method, comprising:</p> | <p>To the extent the preamble is limiting, the Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a display control method.</p> <p>A non-limiting example is shown below:</p> <p>The DTEN D7 is a complete ZOOM Rooms TOUCH conferencing installation, including all hardware and software. The built-in, AI enhanced, 16 element microphone array with 4K camera, offers a best-in-class conferencing, wireless, screen sharing, and white boarding experience. <i>(All software is pre-installed.)</i></p> <p><a href="https://help.dten.com/hc/en-us/article_attachments/900006433903">https://help.dten.com/hc/en-us/article_attachments/900006433903</a> (accessed on July 9, 2025).</p> <p>DTEN D7 includes a touchscreen, integrated PC, microphone, speaker, HD camera, and Zoom Meetings for Touch pre-installed.</p> <p><a href="https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0063196">https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0063196</a> (accessed July 9, 2025).</p> <p>As shown in the figure below, the Accused Instrumentality (e.g., Zoom Meetings or Zoom Rooms software) installed in a Zoom hardware partner device such as DTEN D7 (e.g., D7 Dual 75”) controls a display control apparatus (e.g., D7 Dual 75”) to receive and/or display information for a video conference.</p> |

| Claims of US Patent No. 11,289,093 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|                                    | <div>  <p>DTEN D7 Dual 75"</p> <p>Keep the focus at the front with video conferencing equipment for large rooms.</p> <p>Contact Sales Schedule a Demo</p> </div> <p> <a href="https://www.dten.com/products/dten-d7/dual-75/?srsltid=AfmBOoqOXKh8uTWwXW7kTA7T_i0wGKRqW6nrt_1nnx8QscL4PnWCfW9o">https://www.dten.com/products/dten-d7/dual-75/?srsltid=AfmBOoqOXKh8uTWwXW7kTA7T_i0wGKRqW6nrt_1nnx8QscL4PnWCfW9o</a> (accessed July 7, 2026)         </p> <div>  <p>Configure in 3 Easy Steps</p> <p>Flawless Video, Integrated Audio, and Wireless Content Sharing</p> </div> |

| Claims of US Patent No. 11,289,093 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|                                    | <p><a href="https://www.zoom.com/en/products/meeting-rooms/resources/configuration/">https://www.zoom.com/en/products/meeting-rooms/resources/configuration/</a> (accessed on July 7, 2026)</p> <p>Non-limiting examples of Zoom user's devices such as desktop computers, laptops, and mobile devices (regardless of hardware brand) are shown below:</p>  <p><a href="https://wigatos.com/22172-cara-zoom-meeting-di-laptop/">https://wigatos.com/22172-cara-zoom-meeting-di-laptop/</a> (accessed on July 7, 2026).</p>  |

| Claims of US Patent No. 11,289,093 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|                                    | <p><a href="https://dailybruin.com/2024/04/23/research-reveals-delaying-in-person-medical-residency-visits-can-reduce-inequities">https://dailybruin.com/2024/04/23/research-reveals-delaying-in-person-medical-residency-visits-can-reduce-inequities</a> (accessed on July 7, 2026).</p>  <p><a href="https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/">https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/</a> (accessed on July 7, 2026).</p> <p>On information and belief, Zoom supplies its proprietary software that, upon activation, engagement, or use by any user or operator, takes functional control of the underlying hardware on which it runs, regardless of the make, brand, or original configuration of that hardware. Once Zoom’s software is installed and activated, the host device—whether a desktop computer, laptop, tablet, smartphone, conference room system such as DTEN D7, or other computing device—ceases to function as a general-purpose machine with respect to the claimed functionalities and instead operates as a Zoom special purpose computer: a device that is directed, managed, and/or controlled by Zoom’s proprietary software to perform the specific functions of video conferencing. Accordingly, the Accused Instrumentalities encompass not only Zoom’s software but also any hardware device on which Zoom’s software is activated, engaged, or used, as such device become a Zoom special purpose computer for purposes of the infringing acts described herein. The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a display control method implemented by, for example, the Zoom special purpose computer.</p> |

| Claims of US Patent No. 11,289,093                                                                                                                                                                                                   | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                               |
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| 17[a] receiving text data converted from voice data, and time information from a server that manages content data generated during an event;                                                                                         | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a display control method of receiving text data converted from voice data, and time information from a server that manages content data generated during an event.</p> <p><i>See, e.g., supra</i> Claim 1[b].</p>                                                                                     |
| 17[b] displaying, on a display, the text data in an order according to the time information;                                                                                                                                         | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a display control method of displaying, on a display, the text data in an order according to the time information.</p> <p><i>See, e.g., supra</i> Claim 1[c].</p>                                                                                                                                     |
| 17[c] displaying, on the display at a first display region, a graphical control region that sets playback position in a total playback time of the voice data;                                                                       | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a display control method of displaying, on the display at a first display region, a graphical control region that sets playback position in a total playback time of the voice data.</p> <p><i>See, e.g., supra</i> Claim 1[d].</p>                                                                   |
| 17[d] receiving selection of first text data from the text data being displayed;                                                                                                                                                     | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a display control method of receiving selection of first text data from the text data being displayed.</p> <p><i>See, e.g., supra</i> Claim 1[e].</p>                                                                                                                                                 |
| 17[e] determining, by referring to the time information, a second display location which is different from the first display location, the second display location corresponding to the time information of the first text data; and | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a display control method of determining, by referring to the time information, a second display location which is different from the first display location, the second display location corresponding to the time information of the first text data.</p> <p><i>See, e.g., supra</i> Claim 1[f].</p> |

| Claims of US Patent No. 11,289,093                                                                                                                                                                                                                                              | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                              |
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| 17[f] controlling the display to display the graphical control region at the second display location.                                                                                                                                                                           | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs a display control method of controlling the display to display the graphical control region at the second display location.</p> <p><i>See, e.g., supra</i> Claim 1[g].</p>                                                                                                                           |
| <p>18. The display control method of claim 17, further comprising:</p> <p>starting playback of the voice data from a time that the first text data is generated.</p>                                                                                                            | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs the display control method of claim 17, further comprising starting playback of the voice data from a time that the first text data is generated.</p> <p><i>See, e.g., supra</i> Claim 2.</p>                                                                                                        |
| <p>19[a] The display control method of claim 17, further comprising:</p> <p>generating screen data based on information on the event, the information on the event including the voice data, the text data converted from the voice data, and the time information, wherein</p> | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs the display control method of claim 17, further comprising generating screen data based on information on the event, the information on the event including the voice data, the text data converted from the voice data, and the time information.</p> <p>A non-limiting example is shown below:</p> |

| Claims of US Patent No. 11,289,093                                                                                     | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                                                                                                                        |  <p>As shown in the figure above, the Accused Instrumentality (e.g., Zoom Meetings, Zoom Rooms) controls a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device to generate screen data based on information (e.g., time information, content information, image information, voice information, text information converted from the voice information or the like) on the event (e.g., a recorded Zoom meeting) from the Zoom server. The information on the event (e.g., a recorded Zoom meeting) includes the voice data, the text data converted from the voice data, and the time information. The screen data includes the information such as the voice data, the text data converted from the voice data, and the time information.</p> <p><i>See, e.g., supra</i> Claims 13[a] and [b].</p> |
| <p>19[b] the displaying the text data and the displaying the graphical control region is based on the screen data.</p> | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs the display control method of claim 17, where the displaying the text data and the displaying the graphical control region is based on the screen data.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Claims of US Patent No. 11,289,093                                                                                                                                                                                                                                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                  | <p>On information and belief, the displaying the text data and the displaying the graphical control region is based on the screen data because the screen data includes the voice data, the text data converted from the voice data, and the associated time information needed to generate those displays.</p> <p><i>See, e.g., supra</i> Claim 19[a].</p>                                                                                |
| <p>20[a] The display control method of claim 17, further comprising:</p> <p>receiving, from the server that manages content data generated during the event, screenshot image data associated with the text data; and</p>                                                                                                        | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs the display control method of claim 17, further comprising receiving, from the server that manages content data generated during the event, screenshot image data associated with the text data.</p> <p><i>See, e.g., supra</i> Claim 5[a].</p>                                                                                                            |
| <p>20[b] controlling the display to further display the screenshot image data, in the order according to the time information.</p>                                                                                                                                                                                               | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs the display control method of claim 17, further comprising controlling the display to further display the screenshot image data, in the order according to the time information.</p> <p><i>See, e.g., supra</i> Claim 5[b].</p>                                                                                                                            |
| <p>21[a] The display control method of claim 17, further comprising:</p> <p>in response to selection of the first text data, obtaining, from the first text data, a content processing identifier for identifying conversion processing that has been applied to generate the first text data from corresponding voice data;</p> | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs the display control method of claim 17, further comprising in response to selection of the first text data, obtaining, from the first text data, a content processing identifier for identifying conversion processing that has been applied to generate the first text data from corresponding voice data.</p> <p><i>See, e.g., supra</i> Claim 6[a].</p> |

| Claims of US Patent No. 11,289,093                                                                                                                                                                  | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| 21[b] obtaining the time information using the content processing identifier; and                                                                                                                   | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs the display control method of claim 17, further comprising obtaining the time information using the content processing identifier.</p> <p><i>See, e.g., supra</i> Claim 6[b].</p>                                                                                                                                                                                                                                                                                                                                                                                                            |
| 21[c] determining the second display location of the graphical control region based on the time information.                                                                                        | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms performs the display control method of claim 17, further comprising determining the second display location of the graphical control region based on the time information.</p> <p><i>See, e.g., supra</i> Claim 6[c].</p>                                                                                                                                                                                                                                                                                                                                                                             |
| 22[pre] A non-transitory recording medium storing a plurality of instructions which, when executed by one or more processors, cause the processors to perform a display control method, comprising: | <p>To the extent the preamble is limiting, the Accused Instrumentality includes a non-transitory computer-readable medium storing a plurality of instructions which, when executed by one or more processors, cause the processors to perform a display control method.</p> <p>For example, the Accused Instrumentality may be downloaded, installed or pre-installed on a computing device such as a Zoom hardware partner device (e.g., DTEN D7) and/or a user's device, where the stored instructions are executable by one or more processors of the computing device to perform a display control method.</p> <p><i>See, e.g., supra</i> Claims 1[pre] and 17[pre].</p> |
| 22[a] receiving text data converted from voice data, and time information from a server that manages content data generated during an event;                                                        | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms causes the processors to perform a display control method of receiving text data converted from voice data, and time information from a server that manages content data generated during an event.</p> <p><i>See, e.g., supra</i> Claims 1[b], and 17[a].</p>                                                                                                                                                                                                                                                                                                                                        |
| 22[b] displaying, on a display, the text data in an order according to the time information;                                                                                                        | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms causes the processors to perform a display control method of displaying, on a display, the text data in an order according to the time information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Claims of US Patent No. 11,289,093                                                                                                                                                                                                   | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                   |
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|                                                                                                                                                                                                                                      | <i>See, e.g., supra</i> Claims 1[c], and 17[b].                                                                                                                                                                                                                                                                                                                                                                           |
| 22[c] displaying, on the display at a first display region, a graphical control region that sets playback position in a total playback time of the voice data;                                                                       | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms causes the processors to perform a display control method of displaying, on the display at a first display region, a graphical control region that sets playback position in a total playback time of the voice data.</p> <p><i>See, e.g., supra</i> Claims 1[d], and 17[c].</p>                                                                   |
| 22[d] receiving selection of first text data from the text data being displayed;                                                                                                                                                     | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms causes the processors to perform a display control method of receiving selection of first text data from the text data being displayed.</p> <p><i>See, e.g., supra</i> Claims 1[e], and 17[d].</p>                                                                                                                                                 |
| 22[e] determining, by referring to the time information, a second display location which is different from the first display location, the second display location corresponding to the time information of the first text data; and | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms causes the processors to perform a display control method of determining, by referring to the time information, a second display location which is different from the first display location, the second display location corresponding to the time information of the first text data.</p> <p><i>See, e.g., supra</i> Claims 1[f], and 17[e].</p> |
| 22[f] controlling the display to display the graphical control region at the second display location.                                                                                                                                | <p>The Accused Instrumentality such as Zoom Meetings and/or Zoom Rooms causes the processors to perform a display control method of controlling the display to display the graphical control region at the second display location.</p> <p><i>See, e.g., supra</i> Claims 1[g], and 17[f].</p>                                                                                                                            |

# Exhibit F

**Exhibit F**  
**Infringement Claim Chart for U.S. Patent No. US 11,516,278**

Ricoh Company, Ltd. (“Ricoh”) provides evidence of infringement of claims 1-35 of U.S. Patent No. 11,516,278 (hereinafter “the ’278 Patent”) by Defendant Zoom Communications, Inc. f/k/a Zoom Video Communications, Inc. (“Zoom”). In support thereof, Ricoh provides the following claim chart. “Accused Instrumentality” as used herein refers to Zoom’s video conferencing products and services, including but not limited to, Zoom Meetings, Zoom Rooms, Zoom Cloud Recording, Zoom Sessions, Zoom Webinars, Zoom Web App, Zoom Web Portal, Zoom’s video conference management apparatus or system, and associated software, hardware and accessories.

This claim chart demonstrates Zoom’s infringement and provides notice of such infringement, by comparing each element of the asserted claim to corresponding components, aspects, and/or features of the Accused Instrumentality. This claim chart is not intended to constitute an expert report on infringement. This claim chart includes information provided by way of example, and not by way of limitation.

Zoom has not produced any documents requested in discovery, including its core technical documents, to enable Ricoh to properly analyze and identify all Accused Instrumentality, associated functionalities, and related Zoom software. An analysis of Zoom’s (or other third parties’) technical documentation and/or software source code may assist in fully identifying all infringing features and functionality. Accordingly, Ricoh reserves the right to supplement this infringement analysis once such information is made available to Ricoh. Furthermore, Ricoh reserves the right to revise this infringement analysis, as appropriate, upon issuance of a court order construing any terms recited in the claims of the ’278 Patent.

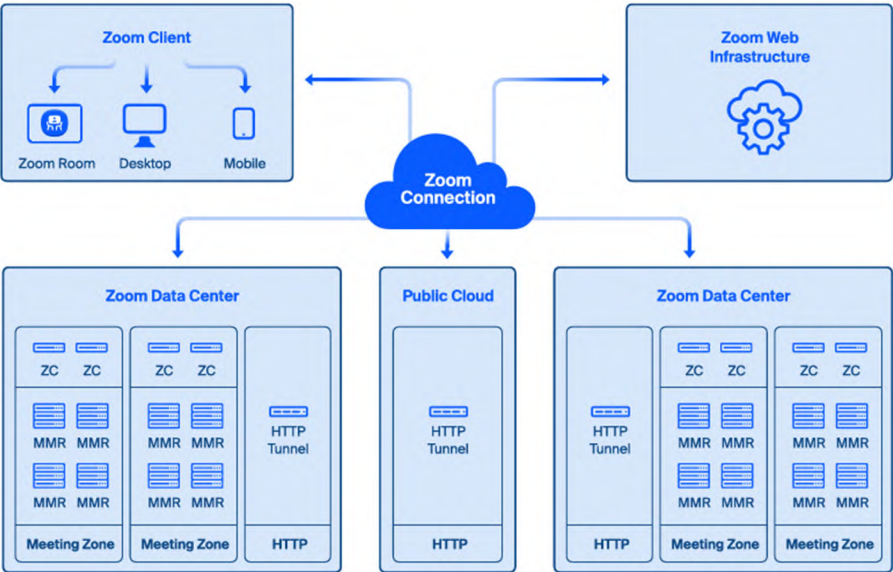
Unless otherwise noted, Ricoh contends that Zoom directly infringes the ’278 Patent in violation of 35 U.S.C. § 271(a) by selling, offering to sell, making, using, and/or importing the Accused Instrumentality. The following exemplary analysis demonstrates that infringement. Unless otherwise noted, Ricoh further contends that the evidence below supports a finding of indirect infringement under 35 U.S.C. §§ 271(b) and/or (c), in conjunction with other evidence of liability under one or more of those subsections. Zoom makes, uses, sells, imports, or offers for sale in the United States, or has made, used, sold, imported, or offered for sale in the past, without authority, or induces others to make, use, sell, import, or offer for sale in the United States, or has induced others to make, use, sell, import, or offer for sale in the past, without authority, products, equipment, or services that infringe claims 1-35 of the ’278 Patent, including without limitation, the Accused Instrumentality.

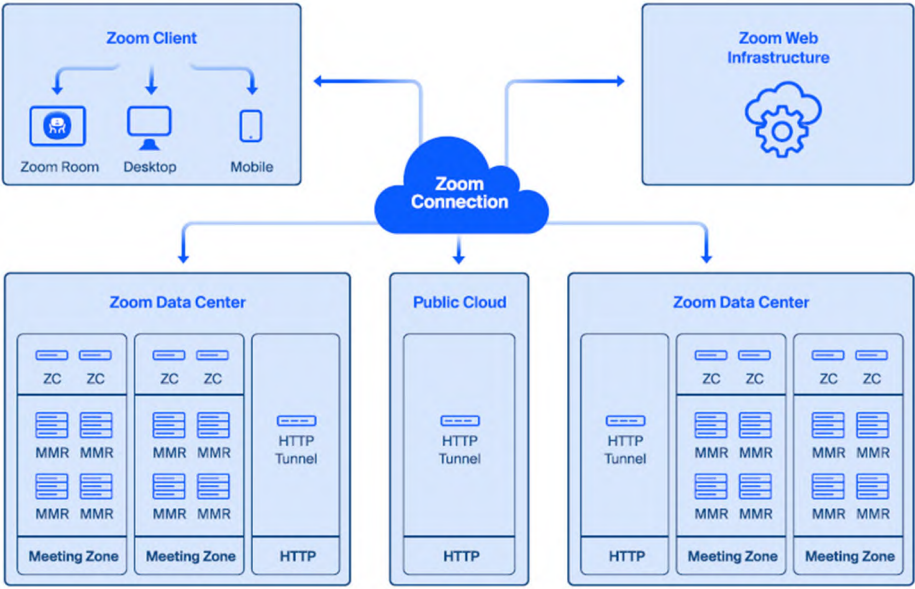
Unless otherwise noted, Ricoh believes and contends that each element of the claims asserted herein is literally met through Zoom’s provision of the Accused Instrumentality. However, to the extent that Zoom attempts to allege that any asserted claim element is not literally met, Ricoh believes and contends that such elements are met under the doctrine of equivalents. More specifically, in its investigation and analysis of the Accused Instrumentality, Ricoh did not identify any substantial differences between the elements of the patent claims and the corresponding features of the Accused Instrumentality, as set forth herein. In each instance, the identified feature of the Accused Instrumentality performs at least substantially the same function in substantially the same way to achieve substantially the same result as the corresponding claim element. In the event that a claim element is deemed to be missing under a literal infringement analysis (e.g., due to the Court’s claim construction), Plaintiff

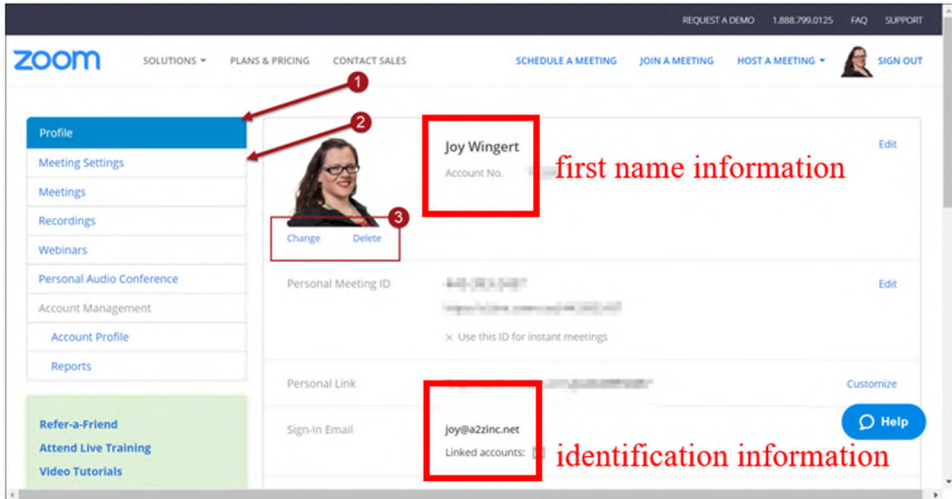
reserves the right to demonstrate the presence of a substantial equivalent of such an element and to pursue infringement under the Doctrine of Equivalents.

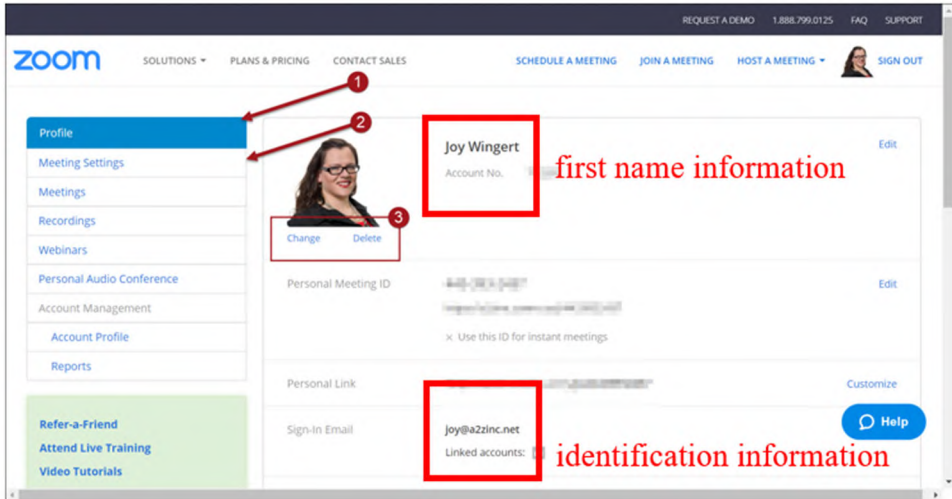
To the extent the chart of an asserted claim relies on evidence about certain specifically identified Accused Instrumentality, Ricoh asserts that, on information and belief, any similarly functioning products or instrumentalities also infringe the charted claim. Ricoh reserves the right to amend this infringement analysis based on other products made, used, sold, imported, or offered for sale by Zoom. Ricoh also reserves the right to amend this infringement analysis to chart other claims of the '278 Patent, not listed in the claim chart, that are infringed by the Accused Instrumentality. Ricoh further reserves the right to amend this infringement analysis by adding, subtracting, or otherwise modifying content in the Accused Instrumentality.

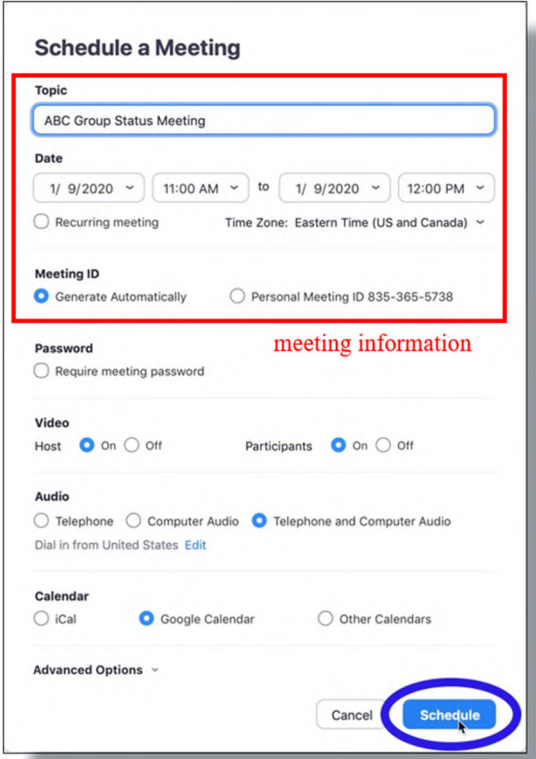
All infringement contentions set forth herein for any independent patent claims are hereby incorporated by reference into the infringement contentions alleged for any dependent claims that depend on independent claims, as if fully set forth herein.

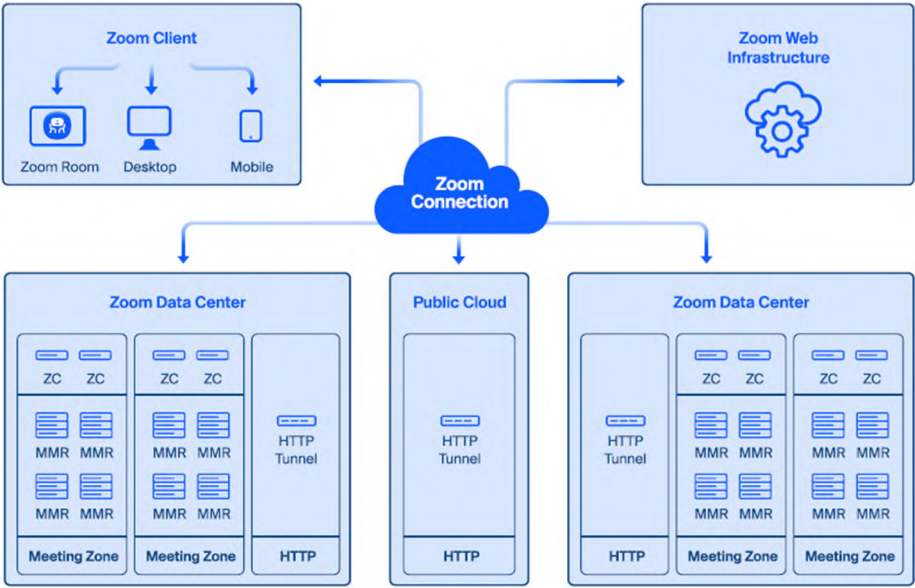
| Claims of US Patent No. 11,516,278             | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1[pre] A management system, comprising:</p> | <p>To the extent preamble is limiting, Zoom’s video conference management system is a management system.</p> <p>For example, Zoom’s video conference management system may include, without limitation, at least one of Zoom Web Infrastructure, Zoom Data Centers, Zoom Cloud and/or any third-party cloud services utilized by Zoom, and/or other server-side components that perform or facilitate Zoom account authentication, Zoom account information management, transmission terminal management, and video conferencing services.</p> <p>A non-limiting example is shown below:</p>  <p>The diagram illustrates the Zoom Connection Process Whitepaper architecture. At the top left, a box labeled 'Zoom Client' contains icons for 'Zoom Room', 'Desktop', and 'Mobile'. At the top right, a box labeled 'Zoom Web Infrastructure' contains a gear icon. In the center, a blue cloud icon labeled 'Zoom Connection' is connected to both the Zoom Client and Zoom Web Infrastructure boxes. Below the Zoom Connection cloud, there are three main components: two 'Zoom Data Center' boxes and one 'Public Cloud' box. Each Zoom Data Center box contains a grid of components: 'ZC' (Zoom Client) icons, 'MMR' (Meeting Management Resources) icons, and 'HTTP Tunnel' icons. The Public Cloud box contains an 'HTTP Tunnel' icon. Arrows indicate the flow of data and connections between these components.</p> <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p> |

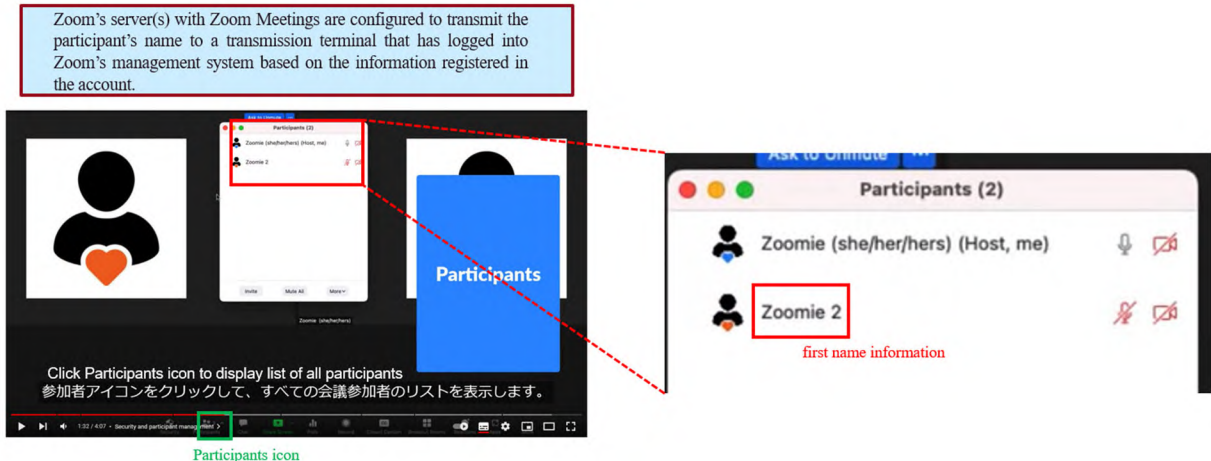
| Claims of US Patent No. 11,516,278         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1[a] one or more memories to store:</p> | <p>Zoom's video conference management system includes one or more memories.</p> <p>For example, Zoom's video conference management system includes a Zoom server having one or more memory devices to store information for video conferencing services.</p> <p><b>Core Concepts and Components</b></p> <p>Prior to diving into the process, it's important to understand the key components involved within the connection flow and their role with Zoom's architecture.</p>  <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p> |

| Claims of US Patent No. 11,516,278                                                          | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <p>1[b] identification information to be used upon logging in to the management system,</p> | <p>Zoom’s video conference management system includes one or more memories to store identification information to be used upon logging in to the management system.</p> <p>A non-limiting example is shown below:</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>Zoom manages and stores, for each user, a login account (identification information) and a name (first name information) in association with each other.</p> </div>  <p>As shown in the figure above, Zoom’s video conference management system manages and stores its users’ identification information (e.g., an account login information) to be used upon logging in to Zoom’s video conference management system.</p> |

| Claims of US Patent No. 11,516,278                                                                            | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <p>1[c] first name information which indicates a name associated with the identification information, and</p> | <p>Zoom’s video conference management system includes one or more memories to store first name information which indicates a name associated with the identification information.</p> <p>A non-limiting example is shown below:</p> <div style="border: 1px solid red; padding: 10px; margin: 10px 0;"> <p>Zoom manages and stores, for each user, a login account (identification information) and a name (first name information) in association with each other.</p> </div>  <p>As shown in the figure above, Zoom’s video conference management system manages and stores its users’ first name information, which indicates a name associated with the identification information (e.g., an account login information).</p> |
| <p>1[d] meeting information relating to a scheduled meeting; and</p>                                          | <p>Zoom’s video conference management system includes one or more memories to store meeting information relating to a scheduled meeting.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Claims of US Patent No. 11,516,278       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                                          | <p>A non-limiting example is shown below:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> A scheduled meeting has a Meeting ID </div>  <p>As shown in the figure above, Zoom’s video conference management system manages and stores meeting information (e.g., meeting topic, meeting ID, meeting time and the like) relating to a scheduled meeting.</p> |
| 1[e] processing circuitry configured to: | Zoom’s video conference management system includes processing circuitry.                                                                                                                                                                                                                                                                                                                                                                                                                            |

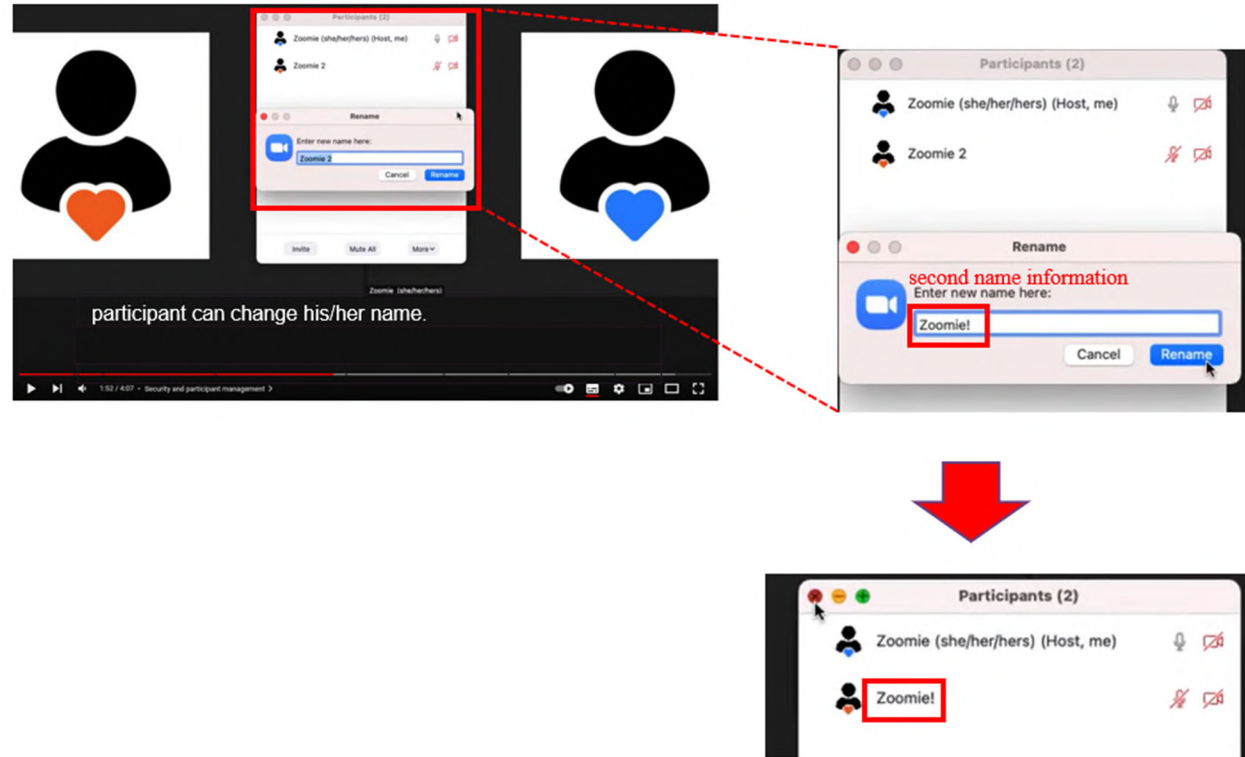
| Claims of US Patent No. 11,516,278 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p>For example, Zoom’s video conference management system includes a Zoom server having processing circuitry configured to perform video conferencing services, including managing meeting sessions, processing communications, and coordinating interactions among transmission terminals.</p> <p><b>Core Concepts and Components</b></p> <p>Prior to diving into the process, it's important to understand the key components involved within the connection flow and their role with Zoom's architecture.</p>  <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p> |

| Claims of US Patent No. 11,516,278                                                                                                                                                                                                                     | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <p>1[f] transmit the first name information to a transmission terminal that has logged in to the management system based on the identification information;</p>                                                                                        | <p>Zoom's video conference management system includes processing circuitry configured to transmit the first name information to a transmission terminal that has logged in to the management system based on the identification information.</p> <p>A non-limiting example is shown below:</p>  <p>As shown in the figure above, Zoom's server is configured to transmit the first name information (e.g., a participant's name Zoomie 2) to a transmission terminal that has logged in to the management system based on the identification information (e.g., the user of the transmission terminal has logged into Zoom's video conference management system based on its account login information).</p> |
| <p>1[g] receive, from the transmission terminal, second name information which is different from the first name information and is updated name information of the first name information, the second name information being a name displayed in a</p> | <p>Zoom's video conference management system includes processing circuitry configured to receive, from the transmission terminal, second name information which is different from the first name information and is updated name information of the first name information, the second name information being a name displayed in a meeting held based on the meeting information.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                                                                                                                                                           |

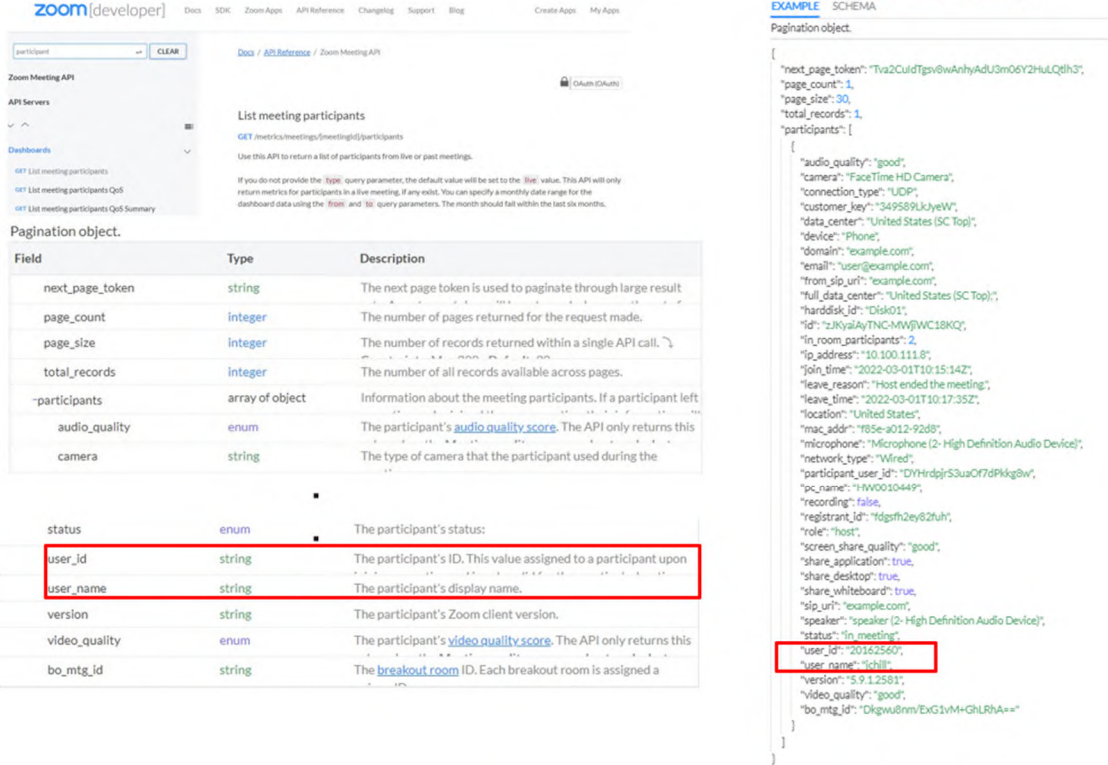
## Claims of US Patent No. 11,516,278

## ACCUSED INSTRUMENTALITY

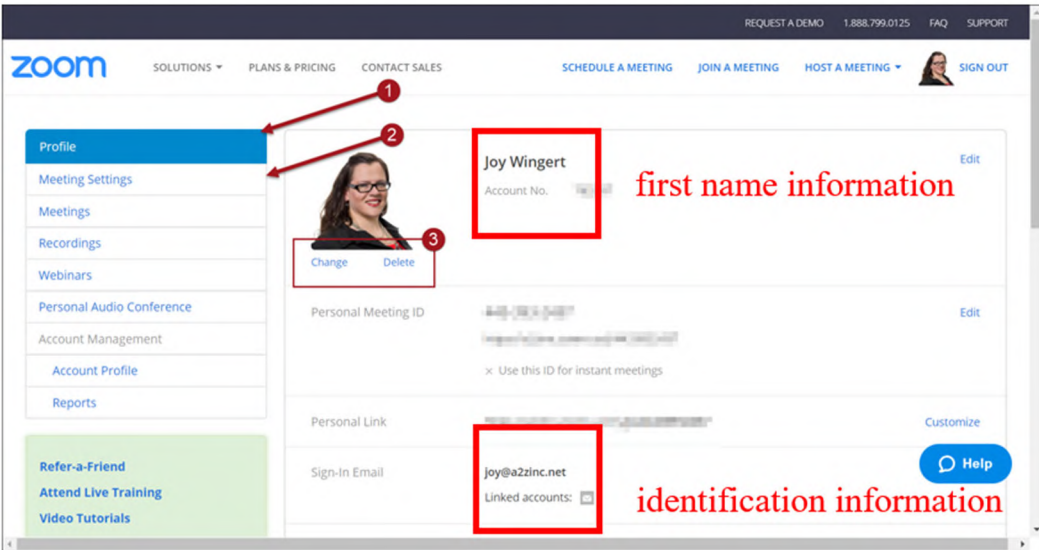
meeting held based on the meeting information; and



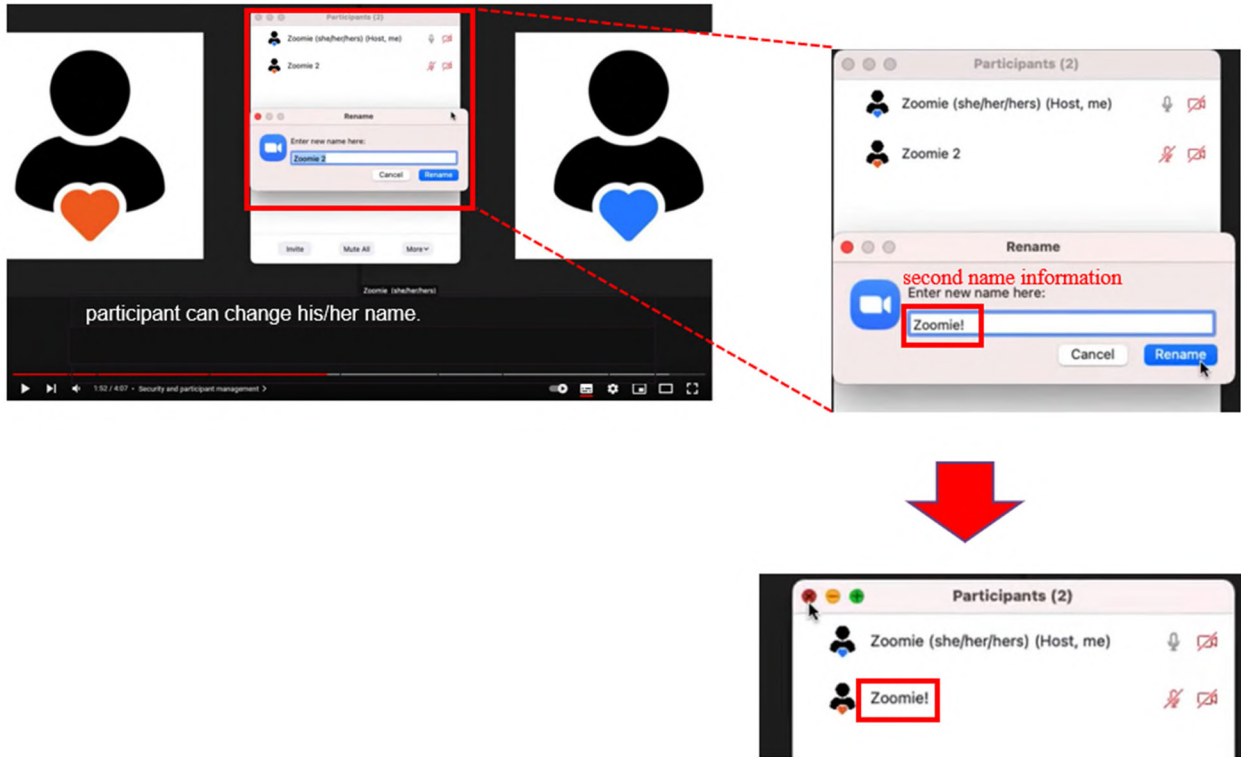
As shown in the figure above, Zoom's video conference management system is configured to receive, from the transmission terminal (e.g., the participant's transmission terminal), second name information (e.g., Zoomie!), which is different from the first name information (e.g., Zoomie 2) and is updated name information of the first name information (e.g., Zoomie 2). The updated second name information (e.g., Zoomie!) is displayed in the same Zoom meeting.

| Claims of US Patent No. 11,516,278                                                                                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <p>1[h] store, in the one or more memories, the second name information in association with the meeting information.</p> | <p>Zoom’s video conference management system includes processing circuitry configured to store, in the one or more memories, the second name information in association with the meeting information.</p> <p>A non-limiting example is shown below:</p> <div><div><h3>Zoom Meeting API</h3><p>that returns a list of participants in response to a request sent with a Meeting ID</p><p><b>Specific Example</b></p></div></div> |

| Claims of US Patent No. 11,516,278                                                                                                                                                                                                        | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                                                                                                                                                                                                                                           | <p>As shown in the figure above, Zoom's video conference management system is configured to store information, such as a participant's display name, in association with meeting information on one or more of its servers.</p>                                                                                                                                                                                                                                                                  |
| <p>2. The management system as claimed in claim 1, wherein the first name information or the second name information is information based on the transmission terminal or information based on a user of the transmission te[rm]inal.</p> | <p>Zoom's video conference management system, for example, is the management system as claimed in claim 1, where the first name information or the second name information is information based on the transmission terminal or information based on a user of the transmission te[rm]inal.</p> <p>For example, the first name information (e.g., Zoomie 2) or the second name information (e.g., Zoomie!) is information based on a user of the transmission terminal (e.g., user's input).</p> |
| <p>3. The management system as claimed in claim 1, wherein the first name information stored in the one or more memories is information based on a request for registering name information from the transmission terminal.</p>           | <p>Zoom's video conference management system, for example, is the management system as claimed in claim 1, where the first name information stored in the one or more memories is information based on a request for registering name information from the transmission terminal.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                              |

| Claims of US Patent No. 11,516,278                                                                                                                                                                                                                                                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                  |  <p>As shown in the figure above, the first name information (e.g., Joy Wingert) is information based on a request for registering name information from the transmission terminal (e.g., a user's request or input for registering name information).</p>                                                                                                 |
| <p>4. The management system as claimed in claim 1, wherein the processing circuitry is further configured to:</p> <p>transmit the first name information to the transmission terminal, in order to display a destination list including the first name information on the transmission terminal that has logged in to the management system.</p> | <p>Zoom's video conference management system, for example, is the management system as claimed in claim 1, where the processing circuitry is further configured to transmit the first name information to the transmission terminal, in order to display a destination list including the first name information on the transmission terminal that has logged in to the management system.</p> <p>A non-limiting example is shown below:</p> |

| Claims of US Patent No. 11,516,278                                                                                                                                                                                                                                                                                                                                                                                  | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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|                                                                                                                                                                                                                                                                                                                                                                                                                     |  <p>As shown in the figure above, Zoom's video conference management system is configured to transmit the first name information (e.g., a participant's name Zoomie 2) to the transmission terminal, in order to display a destination list (e.g., a list of participants' names) including the first name information on the transmission terminal that has logged in to the management system.</p>                          |
| <p>5. The management system as claimed in claim 1, wherein the processing circuitry is further configured to:</p> <p>transmit the second name information associated with the meeting information to the transmission terminal, in order to display information on participants of a meeting corresponding to the meeting information on the transmission terminal that has logged in to the management system.</p> | <p>Zoom's video conference management system, for example, is the management system as claimed in claim 1, where the processing circuitry is further configured to transmit the second name information associated with the meeting information to the transmission terminal, in order to display information on participants of a meeting corresponding to the meeting information on the transmission terminal that has logged in to the management system.</p> <p>A non-limiting example is shown below:</p> |

| Claims of US Patent No. 11,516,278                                                                                  | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                                                                                                                     |  <p>As shown in the figure above, Zoom's video conference management system is configured to transmit the second name information (e.g., Zoomie!) to the transmission terminal (e.g., the participant's transmission terminal), in order to display information on participants of a meeting corresponding to the meeting information on the transmission terminal that has logged in to the management system. A list of participants' names, including the second name information (e.g., Zoomie!), is displayed in the same Zoom meeting.</p> |
| 6. The management system as claimed in claim 5, wherein the second name information transmitted to the transmission | Zoom's video conference management system, for example, is the management system as claimed in claim 5, where the second name information transmitted to the transmission terminal is name information associated                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Claims of US Patent No. 11,516,278                                                                                                                                                                                                                                                              | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                      |
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| <p>terminal is name information associated with another transmission terminal in a state of participating in the meeting corresponding to the meeting information.</p>                                                                                                                          | <p>with another transmission terminal in a state of participating in the meeting corresponding to the meeting information.</p> <p>On information and belief, the second name information transmitted to the transmission terminal is name information associated with another transmission terminal in a state of participating in the meeting corresponding to the meeting information.</p> |
| <p>7[a] The management system as claimed in claim 1, wherein the processing circuitry is further configured to:</p> <p>receive reservation request information indicating a request for reserving a meeting from the transmission terminal that has logged in to the management system, and</p> | <p>Zoom's video conference management system, for example, is the management system as claimed in claim 1, where the processing circuitry is further configured to receive reservation request information indicating a request for reserving a meeting from the transmission terminal that has logged in to the management system.</p> <p>A non-limiting example is shown below:</p>        |

A scheduled meeting has a Meeting ID

**Schedule a Meeting**

**Topic**  
ABC Group Status Meeting

**Date**  
1/ 9/2020 11:00 AM to 1/ 9/2020 12:00 PM  
☐ Recurring meeting Time Zone: Eastern Time (US and Canada)

**Meeting ID**  
☒ Generate Automatically ☐ Personal Meeting ID 835-365-5738

**Password**  
☐ Require meeting password

**Video**  
Host ☒ On ☐ Off Participants ☒ On ☐ Off

**Audio**  
☐ Telephone ☐ Computer Audio ☒ Telephone and Computer Audio  
Dial in from United States [Edit](#)

**Calendar**  
☐ iCal ☒ Google Calendar ☐ Other Calendars

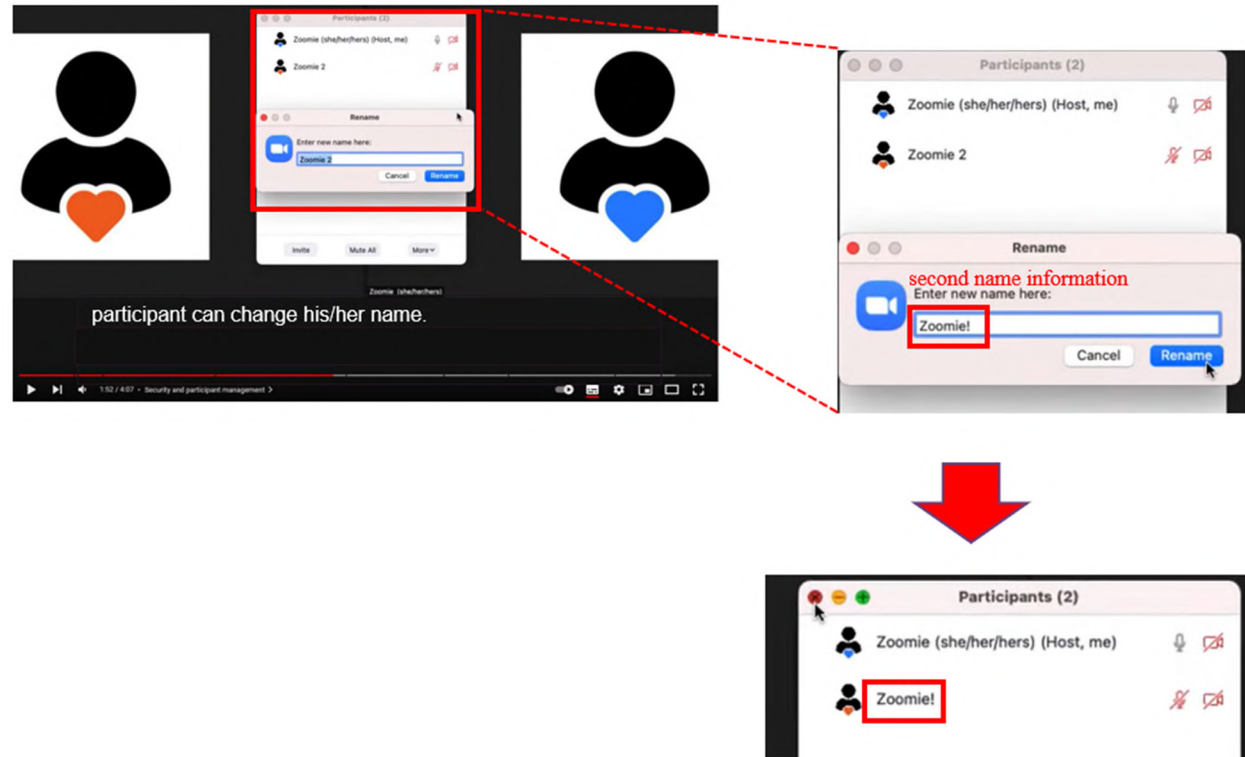
**Advanced Options**

[Cancel](#) [Schedule](#)

As shown in the figure above, the transmission terminal is configured to send reservation request information indicating a request for reserving a meeting (e.g., a request for scheduling a meeting at a preferred date and time) to the Zoom's video conference management system, and Zoom's video conference management system is configured to receive the reservation request information and process the scheduling request to set up the Zoom meeting accordingly.

| Claims of US Patent No. 11,516,278                                                                                   | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <p>7[b] store, in the one or more memories, meeting information included in the reservation request information.</p> | <p>Zoom’s video conference management system, for example, is the management system as claimed in claim 1, where the processing circuitry is further configured to store, in the one or more memories, meeting information included in the reservation request information.</p> <p>A non-limiting example is shown below:</p> <div> <p>A scheduled meeting has a Meeting ID</p> </div> <div> <p><b>Schedule a Meeting</b></p> <p><b>Topic</b><br/> <input type="text" value="ABC Group Status Meeting"/></p> <p><b>Date</b><br/> <input type="text" value="1/ 9/2020"/> <input type="text" value="11:00 AM"/> to <input type="text" value="1/ 9/2020"/> <input type="text" value="12:00 PM"/><br/> <input type="checkbox"/> Recurring meeting      Time Zone: Eastern Time (US and Canada) ▾</p> <p><b>Meeting ID</b><br/> <input checked="" type="radio"/> Generate Automatically    <input type="radio"/> Personal Meeting ID 835-365-5738</p> <p><b>Password</b><br/> <input type="checkbox"/> Require meeting password</p> <p><b>Video</b><br/> Host: <input checked="" type="radio"/> On <input type="radio"/> Off      Participants: <input checked="" type="radio"/> On <input type="radio"/> Off</p> <p><b>Audio</b><br/> <input type="radio"/> Telephone    <input type="radio"/> Computer Audio    <input checked="" type="radio"/> Telephone and Computer Audio<br/> Dial in from United States <a href="#">Edit</a></p> <p><b>Calendar</b><br/> <input type="radio"/> iCal    <input checked="" type="radio"/> Google Calendar    <input type="radio"/> Other Calendars</p> <p>Advanced Options ▾</p> <p><input type="button" value="Cancel"/> <input checked="" type="button" value="Schedule"/></p> </div> |

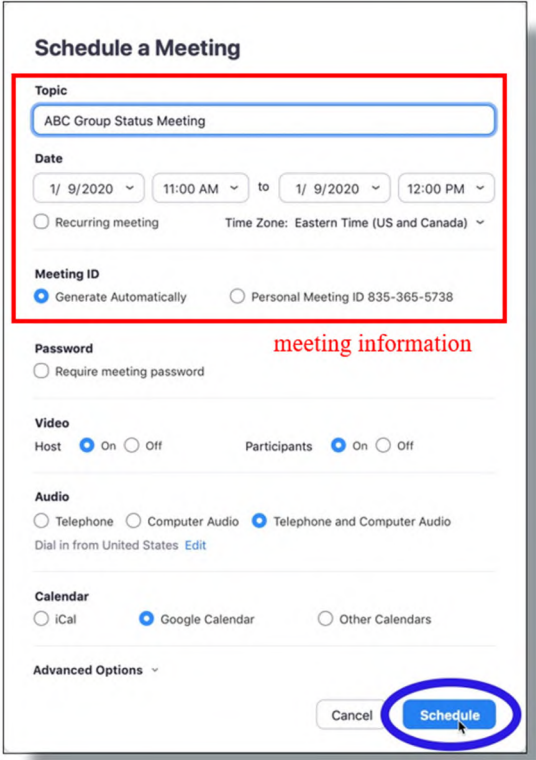
| Claims of US Patent No. 11,516,278                                                                                                                                                                                                                                  | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                     | <p>As shown in the figure above and on information and belief, once the Zoom's video conference management system receives and processes the reservation request information, it stores the meeting information (e.g., meeting topic, meeting ID, meeting date and the like) on Zoom's server(s).</p>                                                           |
| <p>8. The management system as claimed in claim 1, wherein the processing circuitry is further configured to:</p> <p>transmit the second name information associated with a meeting corresponding to meeting information selected on the transmission terminal.</p> | <p>Zoom's video conference management system, for example, is the management system as claimed in claim 1, where the processing circuitry is further configured to transmit the second name information associated with a meeting corresponding to meeting information selected on the transmission terminal.</p> <p>A non-limiting example is shown below:</p> |

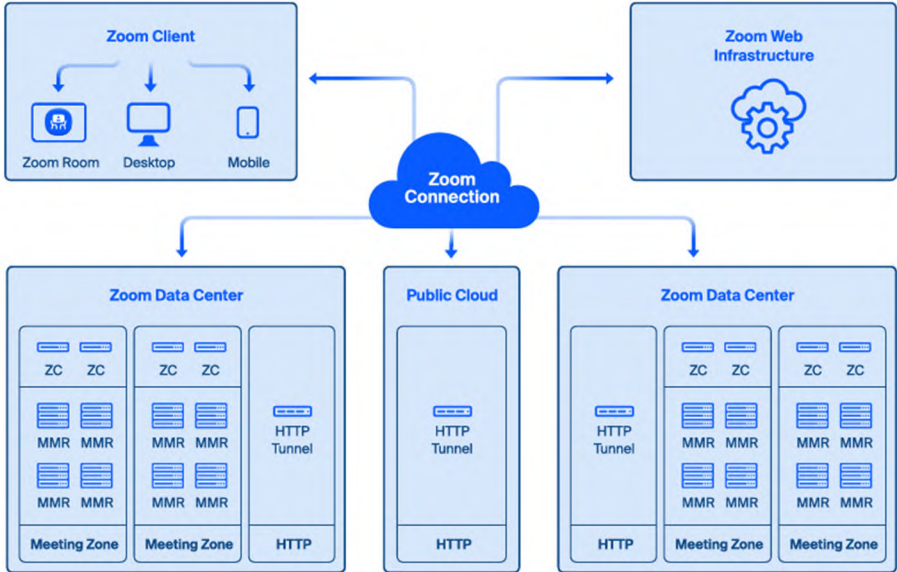


As shown in the figure above, Zoom's video conference management system is configured to transmit the second name information (e.g., Zoomie!) associated with a meeting corresponding to meeting information selected on the transmission terminal (e.g., the same selected Zoom meeting by the participant's transmission terminal).

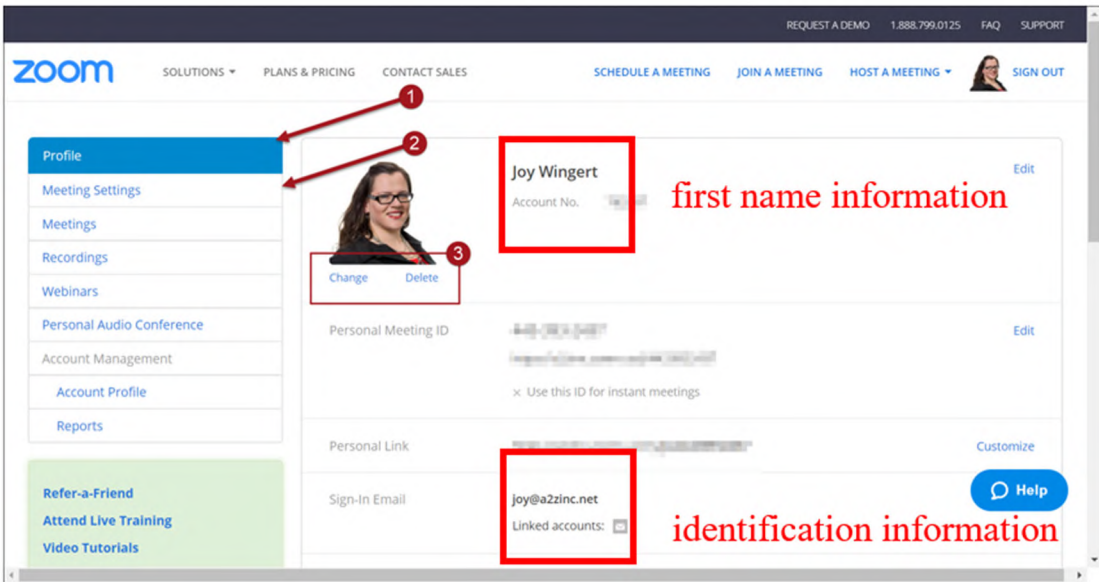
*See also, e.g., supra Claim 5.*

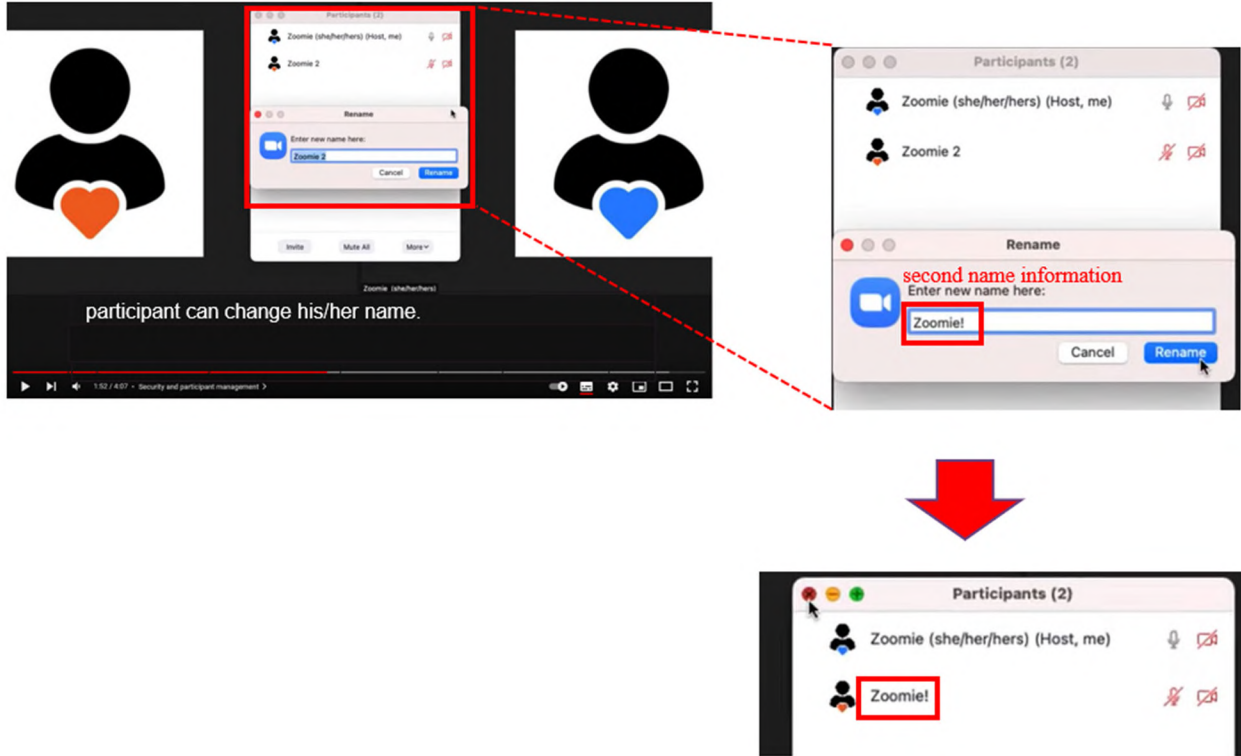
| Claims of US Patent No. 11,516,278                                                                                                                                                                                                                                                                                                                                                                                                 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>9. The management system as claimed in claim 8, wherein the processing circuitry is further configured to:</p> <p>transmit, in a case where the second name information associated with the meeting corresponding to the selected meeting information is not stored, the first name information associated with the identification information, to the transmission terminal on which the meeting information was selected.</p> | <p>Zoom's video conference management system, for example, is the management system as claimed in claim 8, where the processing circuitry is further configured to transmit, in a case where the second name information associated with the meeting corresponding to the selected meeting information is not stored, the first name information associated with the identification information, to the transmission terminal on which the meeting information was selected.</p> <p>On information and belief, Zoom's video conference management system is configured to transmit the first name information to the transmission terminal in a case where the second name information associated with the meeting is not stored (e.g., the second name information is not available).</p> |
| <p>10. The management system as claimed in claim 1, wherein the meeting information includes at least a meeting name, start date/time, and end date/time.</p>                                                                                                                                                                                                                                                                      | <p>Zoom's video conference management system, for example, is the management system as claimed in claim 1, where the meeting information includes at least a meeting name, start date/time, and end date/time.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| Claims of US Patent No. 11,516,278                                                                            | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|                                                                                                               | <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> A scheduled meeting has a Meeting ID </div> <div>  </div> <p>As shown in the figure above, the meeting information includes at least a meeting name, meeting ID, meeting start date/time, meeting end date/time and the like.</p> |
| 11. The management system as claimed in claim 1, wherein the management system includes one or more computer. | Zoom's video conference management system, for example, is the management system as claimed in claim 1, where the management system includes one or more computers.                                                                                                                                                                                                                                                                                       |

| Claims of US Patent No. 11,516,278                                                                                                                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                                                                                                                                                          | <p>A non-limiting example is shown below:</p>  <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p> <p>As shown in the figure above, Zoom’s video conference management system includes one or more computers such as Zoom’s servers.</p> |
| <p>12. The management system as claimed in claim 1, wherein:</p> <p>the first name information is a name included in a destination list displayed on</p> | <p>Zoom’s video conference management system, for example, is the management system as claimed in claim 1, where the first name information is a name included in a destination list displayed on the transmission terminal, and the second name information is a name included in the information related to a meeting on which a predetermined date and time is set to be displayed on the transmission terminal.</p>                                                                                                                                                                                                                                                                                                                                     |

| Claims of US Patent No. 11,516,278                                                                                                                                                                                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <p>the transmission terminal, and the second name information is a name included in the information related to a meeting on which a predetermined date and time is set to be displayed on the transmission terminal.</p> | <p>A non-limiting example is shown below:</p>  <p>As shown in the figure above, the first name information (e.g., a participant's name Zoomie 2) is a name included in a destination list (e.g., a list of participants' names) displayed on the transmission terminal. And on information and belief, the second name information is a name included in the information related to a meeting on which a predetermined date and time is set to be displayed on the transmission terminal.</p> |
| <p>13. The management system as claimed in claim 1, wherein:</p> <p>the meeting information includes at least the identification information as one or more participants of the scheduled meeting.</p>                   | <p>Zoom's video conference management system, for example, is the management system as claimed in claim 1, where the meeting information includes at least the identification information as one or more participants of the scheduled meeting.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                                                                               |

| Claims of US Patent No. 11,516,278                                                                                                                                             | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                               |
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|                                                                                                                                                                                |  <p>As shown in the figure above, the meeting information includes at least the identification information (e.g., an account login information) as one or more participants of the scheduled meeting.</p> <p><i>See also, e.g., supra Claim 1[b].</i></p>                                                           |
| <p>14. The management system as claimed in claim 1, wherein:</p> <p>the processing circuitry receives the second name information before the scheduled meeting is started.</p> | <p>Zoom’s video conference management system, for example, is the management system as claimed in claim 1, where the processing circuitry receives the second name information before the scheduled meeting is started.</p> <p>On information and belief, Zoom’s video conference management system is configured to receive the second name information before the scheduled meeting is started.</p> |

| Claims of US Patent No. 11,516,278                                                                                                                                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                         |
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| <p>15. The management system as claimed in claim 1, wherein:</p> <p>the updated name information of the first name information is name information that is to be displayed instead of displaying the first name information.</p> | <p>Zoom's video conference management system, for example, is the management system as claimed in claim 1, where the updated name information of the first name information is name information that is to be displayed instead of displaying the first name information.</p> <p>A non-limiting example is shown below:</p>  |

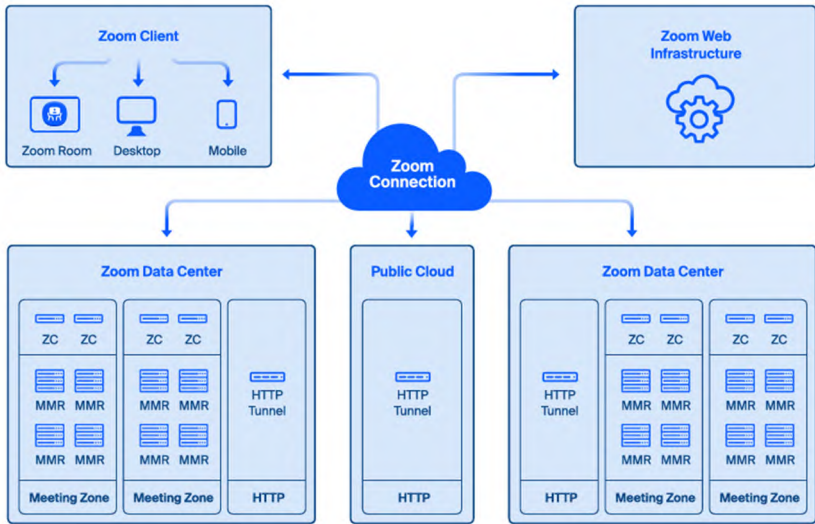
| Claims of US Patent No. 11,516,278                                                                                                                                                                                                                                                     | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                        | <p>As shown in the figure above, the updated name information (e.g., Zoomie!) of the first name information (e.g., Zoomie 2) is name information that is to be displayed instead of displaying the first name information (e.g., Zoomie 2).</p> <p><i>See also, e.g., supra Claim 1[g].</i></p>                                                                                                                                                                                                                             |
| 16[pre] A method, comprising:                                                                                                                                                                                                                                                          | <p>To the extent the preamble is limiting, the Accused Instrumentality such as Zoom's video conference management system performs a method.</p> <p><i>See, e.g., supra Claim 1[pre].</i></p>                                                                                                                                                                                                                                                                                                                                |
| 16[a] reading, from one or more memories, first name information which indicates a name associated with identification information to be used upon logging in to a management system;                                                                                                  | <p>The Accused Instrumentality such as Zoom's video conference management system performs a method of reading, from one or more memories, first name information which indicates a name associated with identification information to be used upon logging in to a management system.</p> <p><i>See, e.g., supra Claims 1[pre] to 1[d].</i></p>                                                                                                                                                                             |
| 16[b] transmitting the read first name information to a transmission terminal that has logged in to a management system based on the identification information;                                                                                                                       | <p>The Accused Instrumentality such as Zoom's video conference management system performs a method of transmitting the read first name information to a transmission terminal that has logged in to a management system based on the identification information.</p> <p><i>See, e.g., supra Claims 1[pre] to 1[f].</i></p>                                                                                                                                                                                                  |
| 16[c] receiving, from the transmission terminal, second name information which is different from the first name information, is updated name information of the first name information, and is a name displayed in a meeting held based on meeting information relating to a scheduled | <p>The Accused Instrumentality such as Zoom's video conference management system performs a method of receiving, from the transmission terminal, second name information which is different from the first name information, is updated name information of the first name information, and is a name displayed in a meeting held based on meeting information relating to a scheduled meeting, the meeting information being stored in the one or more memories.</p> <p><i>See, e.g., supra Claims 1[pre] to 1[g].</i></p> |

| Claims of US Patent No. 11,516,278                                                                                                                                                                                                                                                                   | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                 |
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| meeting, the meeting information being stored in the one or more memories; and                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 16[d] storing, in the one or more memories, the second name information in association with the meeting information.                                                                                                                                                                                 | <p>The Accused Instrumentality such as Zoom’s video conference management system performs a method of storing, in the one or more memories, the second name information in association with the meeting information.</p> <p><i>See, e.g., supra</i> Claims 1[pre] to 1[h].</p>                                                                                                                                          |
| 17. The method as claimed in claim 16, wherein the first name information or the second name information is information based on the transmission terminal or information based on a user of the transmission terminal.                                                                              | <p>The Accused Instrumentality such as Zoom’s video conference management system performs the method as claimed in claim 16, where the first name information or the second name information is information based on the transmission terminal or information based on a user of the transmission terminal.</p> <p><i>See, e.g., supra</i> Claim 2.</p>                                                                 |
| 18. The method as claimed in claim 16, wherein the first name information stored in the one or more memories is information based on a request for registering name information from the transmission terminal.                                                                                      | <p>The Accused Instrumentality such as Zoom’s video conference management system performs the method as claimed in claim 16, where the first name information stored in the one or more memories is information based on a request for registering name information from the transmission terminal.</p> <p><i>See, e.g., supra</i> Claim 3.</p>                                                                         |
| <p>19. The method as claimed in claim 16, further comprising:</p> <p>transmitting the first name information to the transmission terminal, in order to display a destination list including the first name information on the transmission terminal that has logged in to the management system.</p> | <p>The Accused Instrumentality such as Zoom’s video conference management system performs the method as claimed in claim 16, further comprising transmitting the first name information to the transmission terminal, in order to display a destination list including the first name information on the transmission terminal that has logged in to the management system.</p> <p><i>See, e.g., supra</i> Claim 4.</p> |

| Claims of US Patent No. 11,516,278                                                                                                                                                                                                                                                                                                                                      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <p>20. The method as claimed in claim 16, further comprising:</p> <p>transmitting the second name information associated with the meeting information to the transmission terminal, in order to display information on participants of a meeting corresponding to the meeting information on the transmission terminal that has logged in to the management system.</p> | <p>The Accused Instrumentality such as Zoom's video conference management system performs the method as claimed in claim 16, further comprising transmitting the second name information associated with the meeting information to the transmission terminal, in order to display information on participants of a meeting corresponding to the meeting information on the transmission terminal that has logged in to the management system.</p> <p><i>See, e.g., supra</i> Claim 5.</p> |
| <p>21. The method as claimed in claim 20, wherein the second name information transmitted to the transmission terminal is name information associated with another transmission terminal in a state of participating in the meeting corresponding to the meeting information.</p>                                                                                       | <p>The Accused Instrumentality such as Zoom's video conference management system performs the method as claimed in claim 20, where the second name information transmitted to the transmission terminal is name information associated with another transmission terminal in a state of participating in the meeting corresponding to the meeting information.</p> <p><i>See, e.g., supra</i> Claim 6.</p>                                                                                 |
| <p>22[a] The method as claimed in claim 16, further comprising:</p> <p>receiving reservation request information indicating a request for reserving a meeting from the transmission terminal that has logged in to the management system, and</p>                                                                                                                       | <p>The Accused Instrumentality such as Zoom's video conference management system performs the method as claimed in claim 16, further comprising receiving reservation request information indicating a request for reserving a meeting from the transmission terminal that has logged in to the management system.</p> <p><i>See, e.g., supra</i> Claim 7[a].</p>                                                                                                                          |
| <p>22[b] storing, in the one or more memories, meeting information included in the reservation request information.</p>                                                                                                                                                                                                                                                 | <p>The Accused Instrumentality such as Zoom's video conference management system performs the method as claimed in claim 16, further comprising storing, in the one or more memories, meeting information included in the reservation request information.</p>                                                                                                                                                                                                                             |

| Claims of US Patent No. 11,516,278                                                                                                                                                                                                                                                                                                                                                     | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|                                                                                                                                                                                                                                                                                                                                                                                        | <i>See, e.g., supra</i> Claim 7[b].                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>23. The method as claimed in claim 16, further comprising:</p> <p>transmitting the second name information associated with a meeting corresponding to meeting information selected on the transmission terminal.</p>                                                                                                                                                                | <p>The Accused Instrumentality such as Zoom’s video conference management system performs the method as claimed in claim 16, further comprising transmitting the second name information associated with a meeting corresponding to meeting information selected on the transmission terminal.</p> <p><i>See, e.g., supra</i> Claim 8.</p>                                                                                                                                                                |
| <p>24. The method as claimed in claim 23, further comprising:</p> <p>transmitting, in a case where the second name information associated with the meeting corresponding to the selected meeting information is not stored, the first name information associated with the identification information, to the transmission terminal on which the meeting information was selected.</p> | <p>The Accused Instrumentality such as Zoom’s video conference management system performs the method as claimed in claim 23, further comprising transmitting, in a case where the second name information associated with the meeting corresponding to the selected meeting information is not stored, the first name information associated with the identification information, to the transmission terminal on which the meeting information was selected.</p> <p><i>See, e.g., supra</i> Claim 9.</p> |
| <p>25. The method as claimed in claim 16, wherein the meeting information includes at least a meeting name, start date/time, and end date/time.</p>                                                                                                                                                                                                                                    | <p>The Accused Instrumentality such as Zoom’s video conference management system performs the method as claimed in claim 16, where the meeting information includes at least a meeting name, start date/time, and end date/time.</p> <p><i>See, e.g., supra</i> Claim 10.</p>                                                                                                                                                                                                                             |
| <p>26. The method as claimed in claim 16, wherein the management system includes one or more computer.</p>                                                                                                                                                                                                                                                                             | <p>The Accused Instrumentality such as Zoom’s video conference management system performs the method as claimed in claim 16, where the management system includes one or more computers.</p>                                                                                                                                                                                                                                                                                                              |

| Claims of US Patent No. 11,516,278                                                                                                                                                                                                                                                                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                                                                                                                                                                                                                                                                                                                                                                  | <i>See, e.g., supra</i> Claim 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>27. The method as claimed in claim 16, wherein:</p> <p>the first name information is a name included in a destination list displayed on the transmission terminal, and the second name information is a name included in the information related to a meeting on which a predetermined date and time is set to be displayed on the transmission terminal.</p> | <p>The Accused Instrumentality such as Zoom's video conference management system performs the method as claimed in claim 16, where the first name information is a name included in a destination list displayed on the transmission terminal, and the second name information is a name included in the information related to a meeting on which a predetermined date and time is set to be displayed on the transmission terminal.</p> <p><i>See, e.g., supra</i> Claim 12.</p> |
| <p>28. The method as claimed in claim 16, wherein:</p> <p>the meeting information includes at least the identification information as one or more participants of the scheduled meeting.</p>                                                                                                                                                                     | <p>The Accused Instrumentality such as Zoom's video conference management system performs the method as claimed in claim 16, where the meeting information includes at least the identification information as one or more participants of the scheduled meeting.</p> <p><i>See, e.g., supra</i> Claim 13.</p>                                                                                                                                                                     |
| <p>29. The method as claimed in claim 16, wherein:</p> <p>the receiving of the second name information occurs before the scheduled meeting is started.</p>                                                                                                                                                                                                       | <p>The Accused Instrumentality such as Zoom's video conference management system performs the method as claimed in claim 16, where the receiving of the second name information occurs before the scheduled meeting is started.</p> <p><i>See, e.g., supra</i> Claim 14.</p>                                                                                                                                                                                                       |
| <p>30. The method as claimed in claim 16, wherein:</p> <p>the updated name information of the first name information is name information that</p>                                                                                                                                                                                                                | <p>The Accused Instrumentality such as Zoom's video conference management system performs the method as claimed in claim 16, where the updated name information of the first name information is name information that is to be displayed instead of displaying the first name information.</p>                                                                                                                                                                                    |

| Claims of US Patent No. 11,516,278                                   | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| is to be displayed instead of displaying the first name information. | <i>See, e.g., supra</i> Claim 15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 31[pre] A system, comprising:                                        | <p>To the extent preamble is limiting, a system that incorporates the Accused Instrumentality directly infringes claim 31 of the '278 Patent.</p> <p>For example, a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device and a Zoom video conference management system constitute a system. Zoom's video conference management system may include, without limitation, at least one of Zoom Web Infrastructure, Zoom Data Centers, Zoom Cloud and/or any third-party cloud services utilized by Zoom, and/or other server-side components that perform or facilitate Zoom account authentication, Zoom account information management, transmission terminal management, and video conferencing services.</p> <p>A non-limiting example is shown below:</p>  <p>The diagram illustrates the Zoom Connection Process. At the top left, the 'Zoom Client' box contains icons for 'Zoom Room', 'Desktop', and 'Mobile'. At the top right, the 'Zoom Web Infrastructure' box contains a gear icon. In the center is a 'Zoom Connection' cloud icon. Below these are three boxes: 'Zoom Data Center' (left), 'Public Cloud' (center), and 'Zoom Data Center' (right). Each 'Zoom Data Center' box contains multiple 'ZC' (Zoom Client) and 'MMR' (Meeting Management Resource) icons, along with an 'HTTP Tunnel' and a 'Meeting Zone'. The 'Public Cloud' box contains an 'HTTP Tunnel' and an 'HTTP' label. Arrows indicate connections between the Zoom Client, Zoom Web Infrastructure, Zoom Connection, and the various data centers and public cloud components.</p> <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-</a></p> |

| Claims of US Patent No. 11,516,278 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|                                    | <p><a href="https://2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p> <p>As shown in the figure above, a Zoom hardware partner device, such as the DTEN D7 running Zoom Rooms or a Zoom user's device (e.g., desktop computers or mobile devices) with the Zoom Client installed serves as a transmission terminal. The transmission terminal communicates with Zoom's video conference management system through Zoom Connection (e.g., a cloud network) to establish and participate in a video conference session.</p> <p>On information and belief, Zoom supplies its proprietary software that, upon activation, engagement, or use by any user or operator, takes functional control of the underlying hardware on which it runs, regardless of the make, brand, or original configuration of that hardware. Once Zoom's software is installed and activated, the host device—whether a desktop computer, laptop, tablet, smartphone, conference room system such as DTEN D7, or other computing device—ceases to function as a general-purpose machine with respect to the claimed functionalities and instead operates as a Zoom special purpose computer: a device that is directed, managed, and/or controlled by Zoom's proprietary software to perform the specific functions of video conferencing. Accordingly, the Accused Instrumentalities encompass not only Zoom's software but also any hardware device on which Zoom's software is activated, engaged, or used, as such devices become a Zoom special purpose computer for purposes of the infringing acts described herein.</p> |
| 31[a] a transmission terminal; and | <p>The system includes a transmission terminal.</p> <p>For example, a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device is a transmission terminal.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Claims of US Patent No. 11,516,278 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                                    | <p>The <b>DTEN D7</b> is a complete <b>ZOOM</b> Rooms TOUCH conferencing installation, including all hardware and software. The built-in, AI enhanced, 16 element microphone array with 4K camera, offers a best-in-class conferencing, wireless, screen sharing, and white boarding experience. <i>(All software is pre-installed.)</i></p> <p><a href="https://help.dten.com/hc/en-us/article_attachments/900006433903">https://help.dten.com/hc/en-us/article_attachments/900006433903</a> (accessed on July 9, 2025).</p> <p>Non-limiting examples of Zoom user's devices such as desktop computers, laptops, and mobile devices (regardless of hardware brand) are shown below:</p>  <p><a href="https://wigatos.com/22172-cara-zoom-meeting-di-laptop/">https://wigatos.com/22172-cara-zoom-meeting-di-laptop/</a> (accessed on July 7, 2026).</p> |



<https://dailybruin.com/2024/04/23/research-reveals-delaying-in-person-medical-residency-visits-can-reduce-inequities> (accessed on July 7, 2026).



<https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/> (accessed on July 7, 2026).

On information and belief, Zoom supplies its proprietary software that, upon activation, engagement, or use by any user or operator, takes functional control of the underlying hardware on which it runs, regardless of the

| Claims of US Patent No. 11,516,278                                                                      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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|                                                                                                         | <p>make, brand, or original configuration of that hardware. Once Zoom’s software is installed and activated, the host device—whether a desktop computer, laptop, tablet, smartphone, conference room system such as DTEN D7, or other computing device—ceases to function as a general-purpose machine with respect to the claimed functionalities and instead operates as a Zoom special purpose computer: a device that is directed, managed, and/or controlled by Zoom’s proprietary software to perform the specific functions of video conferencing. Accordingly, the Accused Instrumentalities encompass not only Zoom’s software but also any hardware device on which Zoom’s software is activated, engaged, or used, as such device become a Zoom special purpose computer for purposes of the infringing acts described herein.</p> |
| 31[b] a management system, including                                                                    | <p>The system includes a management system.</p> <p>For example, Zoom’s video conference management system is a management system.</p> <p><i>See, e.g., supra</i> Claims 1[pre] and 16[pre].</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 31[c] one or more memories to store:                                                                    | <p>Zoom’s video conference management system includes one or more memories.</p> <p><i>See, e.g., supra</i> Claim 1[a].</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 31[d] identification information to be used upon logging in to the management system,                   | <p>Zoom’s video conference management system includes one or more memories to store identification information to be used upon logging in to the management system.</p> <p><i>See, e.g., supra</i> Claim 1[b].</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 31[e] first name information which indicates a name associated with the identification information, and | <p>Zoom’s video conference management system includes one or more memories to store first name information which indicates a name associated with the identification information.</p> <p><i>See, e.g., supra</i> Claim 1[c].</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 31[f] meeting information relating to a scheduled meeting; and                                          | <p>Zoom’s video conference management system includes one or more memories to store meeting information relating to a scheduled meeting.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Claims of US Patent No. 11,516,278                                                                                                                                                                                                                                                                  | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                                                                                                                                                                                                                                                                                                     | <i>See, e.g., supra</i> Claim 1[d].                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 31[g] processing circuitry configured to:                                                                                                                                                                                                                                                           | Zoom's video conference management system includes processing circuitry.<br><br><i>See, e.g., supra</i> Claim 1[e].                                                                                                                                                                                                                                                                                                                                                                                 |
| 31[h] transmit the first name information to a transmission terminal that has logged in to the management system based on the identification information;                                                                                                                                           | Zoom's video conference management system includes processing circuitry configured to transmit the first name information to a transmission terminal that has logged in to the management system based on the identification information.<br><br><i>See, e.g., supra</i> Claim 1[f].                                                                                                                                                                                                                |
| 31[i] receive, from the transmission terminal, second name information which is different from the first name information and is updated name information of the first name information, the second name information being a name displayed in a meeting held based on the meeting information; and | Zoom's video conference management system includes processing circuitry configured to receive, from the transmission terminal, second name information which is different from the first name information and is updated name information of the first name information, the second name information being a name displayed in a meeting held based on the meeting information.<br><br><i>See, e.g., supra</i> Claim 1[g].                                                                          |
| 31[j] store, in the one or more memories, the second name information in association with the meeting information.                                                                                                                                                                                  | Zoom's video conference management system includes processing circuitry configured to store, in the one or more memories, the second name information in association with the meeting information.<br><br><i>See, e.g., supra</i> Claim 1[h].                                                                                                                                                                                                                                                       |
| 32. The system as claimed in claim 31, wherein:<br><br>the first name information is a name included in a destination list displayed on the transmission terminal, and the second                                                                                                                   | A Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device and a Zoom video conference management system, for example, constitute the system as claimed in claim 31, where the first name information is a name included in a destination list displayed on the transmission terminal, and the second name information is a name included in the information related to a meeting on which a predetermined date and time is set to be displayed on the transmission terminal. |

| Claims of US Patent No. 11,516,278                                                                                                                                                                                        | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                          |
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| name information is a name included in the information related to a meeting on which a predetermined date and time is set to be displayed on the transmission terminal.                                                   | <i>See, e.g., supra</i> Claims 12 and 27.                                                                                                                                                                                                                                                                                                                                        |
| 33. The system as claimed in claim 31, wherein:<br><br>the meeting information includes at least the identification information as one or more participants of the scheduled meeting.                                     | A Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device and a Zoom video conference management system, for example, constitute the system as claimed in claim 31, where the meeting information includes at least the identification information as one or more participants of the scheduled meeting.<br><br><i>See, e.g., supra</i> Claims 13 and 28. |
| 34. The system as claimed in claim 31, wherein:<br><br>the processing circuitry receives the second name information before the scheduled meeting is started.                                                             | A Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device and a Zoom video conference management system, for example, constitute the system as claimed in claim 31, where the processing circuitry receives the second name information before the scheduled meeting is started.<br><br><i>See, e.g., supra</i> Claims 14 and 29.                         |
| 35. The management system as claimed in claim 31 wherein:<br><br>the updated name information of the first name information is name information that is to be displayed instead of displaying the first name information. | Zoom's video conference management system, for example, is the management system as claimed in claim 31, where the updated name information of the first name information is name information that is to be displayed instead of displaying the first name information.<br><br><i>See, e.g., supra</i> Claims 15 and 30.                                                         |

# Exhibit G

**Exhibit G**  
**Infringement Claim Chart for U.S. Patent No. US 11,546,548**

Ricoh Company, Ltd. (“Ricoh”) provides evidence of infringement of claims 1-24 of U.S. Patent No. 11,546,548 (hereinafter “the ’548 Patent”) by Defendant Zoom Communications, Inc. f/k/a Zoom Video Communications, Inc. (“Zoom”). In support thereof, Ricoh provides the following claim chart. “Accused Instrumentality” as used herein refers to Zoom’s video conferencing products and services, including but not limited to, Zoom Meetings, Zoom Rooms, Zoom Cloud Recording, Zoom Sessions, Zoom Webinars, Zoom Web App, Zoom Web Portal, Zoom’s video conference management apparatus or system, and associated software, hardware and accessories.

This claim chart demonstrates Zoom’s infringement and provides notice of such infringement, by comparing each element of the asserted claim to corresponding components, aspects, and/or features of the Accused Instrumentality. This claim chart is not intended to constitute an expert report on infringement. This claim chart includes information provided by way of example, and not by way of limitation.

Zoom has not produced any documents requested in discovery, including its core technical documents, to enable Ricoh to properly analyze and identify all Accused Instrumentality, associated functionalities, and related Zoom software. An analysis of Zoom’s (or other third parties’) technical documentation and/or software source code may assist in fully identifying all infringing features and functionality. Accordingly, Ricoh reserves the right to supplement this infringement analysis once such information is made available to Ricoh. Furthermore, Ricoh reserves the right to revise this infringement analysis, as appropriate, upon issuance of a court order construing any terms recited in the claims of the ’548 Patent.

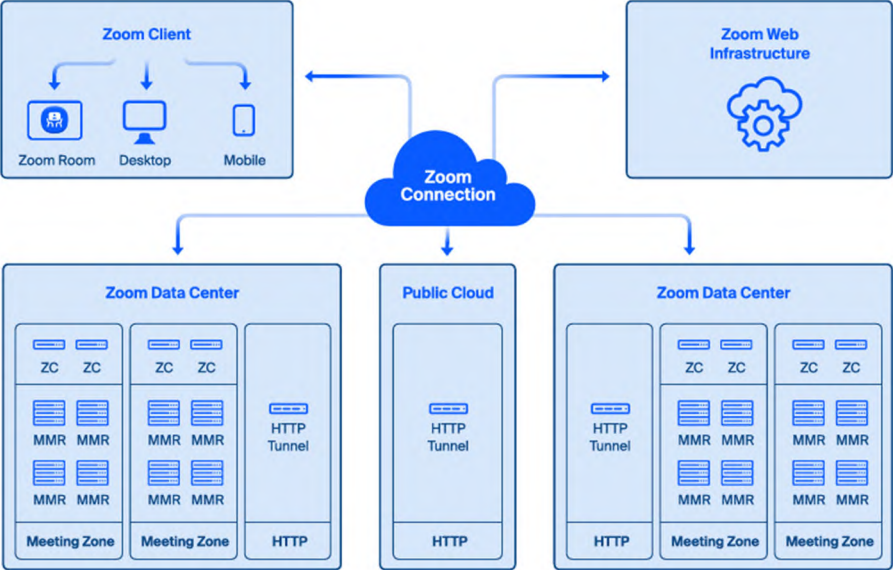
Unless otherwise noted, Ricoh contends that Zoom directly infringes the ’548 Patent in violation of 35 U.S.C. § 271(a) by selling, offering to sell, making, using, and/or importing the Accused Instrumentality. The following exemplary analysis demonstrates that infringement. Unless otherwise noted, Ricoh further contends that the evidence below supports a finding of indirect infringement under 35 U.S.C. §§ 271(b) and/or (c), in conjunction with other evidence of liability under one or more of those subsections. Zoom makes, uses, sells, imports, or offers for sale in the United States, or has made, used, sold, imported, or offered for sale in the past, without authority, or induces others to make, use, sell, import, or offer for sale in the United States, or has induced others to make, use, sell, import, or offer for sale in the past, without authority, products, equipment, or services that infringe claims 1-24 of the ’548 Patent, including without limitation, the Accused Instrumentality.

Unless otherwise noted, Ricoh believes and contends that each element of the claims asserted herein is literally met through Zoom’s provision of the Accused Instrumentality. However, to the extent that Zoom attempts to allege that any asserted claim element is not literally met, Ricoh believes and contends that such elements are met under the doctrine of equivalents. More specifically, in its investigation and analysis of the Accused Instrumentality, Ricoh did not identify any substantial differences between the elements of the patent claims and the corresponding features of the Accused Instrumentality, as set forth herein. In each instance, the identified feature of the Accused Instrumentality performs at least substantially the same function in substantially the same way to achieve substantially the same result as the corresponding claim element. In the event that a claim element is deemed to be missing under a literal infringement analysis (e.g., due to the Court’s claim construction), Plaintiff

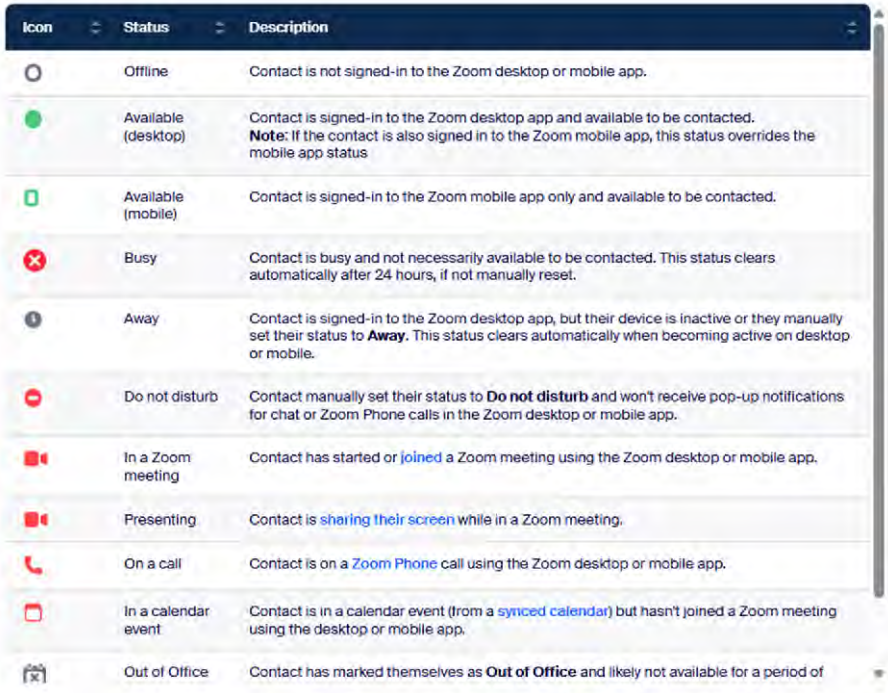
reserves the right to demonstrate the presence of a substantial equivalent of such an element and to pursue infringement under the Doctrine of Equivalents.

To the extent the chart of an asserted claim relies on evidence about certain specifically identified Accused Instrumentality, Ricoh asserts that, on information and belief, any similarly functioning products or instrumentalities also infringe the charted claim. Ricoh reserves the right to amend this infringement analysis based on other products made, used, sold, imported, or offered for sale by Zoom. Ricoh also reserves the right to amend this infringement analysis to chart other claims of the '548 Patent, not listed in the claim chart, that are infringed by the Accused Instrumentality. Ricoh further reserves the right to amend this infringement analysis by adding, subtracting, or otherwise modifying content in the Accused Instrumentality.

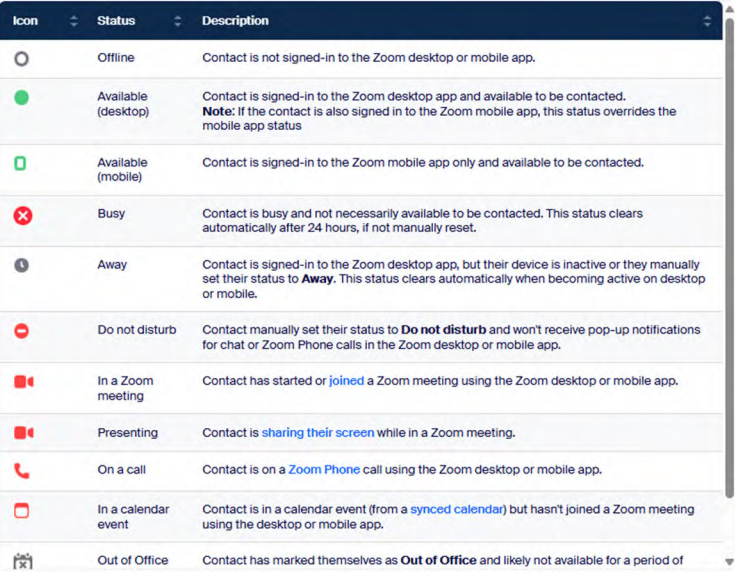
All infringement contentions set forth herein for any independent patent claims are hereby incorporated by reference into the infringement contentions alleged for any dependent claims that depend on independent claims, as if fully set forth herein.

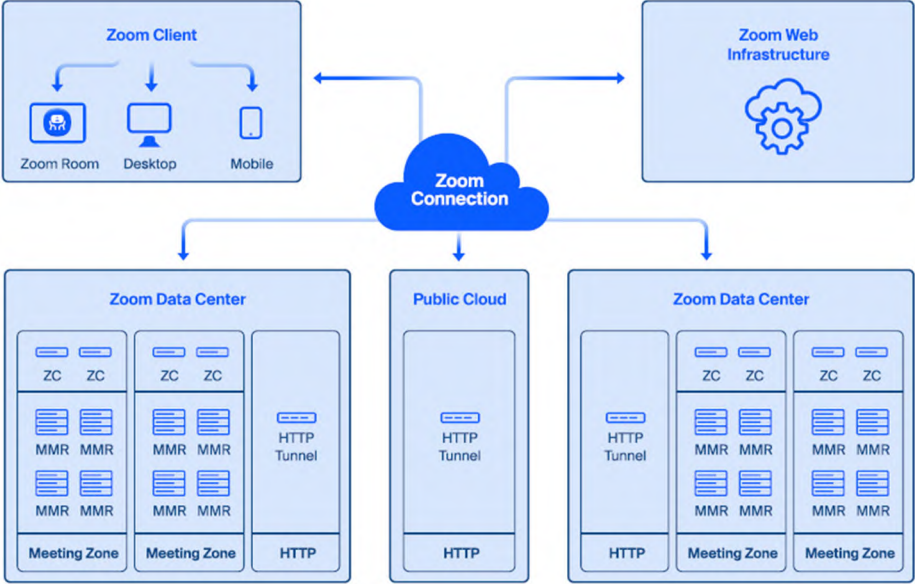
| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <p>1[pre] A transmission management apparatus for updating attendance states of a plurality of transmission terminals including a first transmission terminal and a second transmission terminal, the transmission management apparatus comprising:</p> | <p>To the extent preamble is limiting, the Accused Instrumentality such as Zoom’s video conference management apparatus is a transmission management apparatus for updating attendance states of a plurality of transmission terminals including a first transmission terminal and a second transmission terminal.</p> <p>For example, Zoom’s video conference management apparatus may include, without limitation, at least one of Zoom Web Infrastructure, Zoom Data Centers, Zoom Cloud and/or any third-party cloud services utilized by Zoom, and/or other server-side components that perform or facilitate Zoom account authentication, Zoom account information management, transmission terminal management, and video conferencing services.</p> <p>A non-limiting example is shown below:</p>  <p>The diagram illustrates the Zoom Connection Process. At the top left, the 'Zoom Client' box contains icons for 'Zoom Room', 'Desktop', and 'Mobile'. At the top right, the 'Zoom Web Infrastructure' box contains a gear icon. In the center is a blue cloud labeled 'Zoom Connection'. Below this cloud are three main components: two 'Zoom Data Center' boxes and one 'Public Cloud' box. Each 'Zoom Data Center' box is divided into three vertical sections: 'Meeting Zone' (containing 'ZC' and 'MMR' icons), 'Meeting Zone' (containing 'ZC' and 'MMR' icons), and 'HTTP' (containing an 'HTTP Tunnel' icon). The 'Public Cloud' box contains an 'HTTP Tunnel' icon and an 'HTTP' label at the bottom. Arrows indicate connections from the Zoom Client and Zoom Web Infrastructure to the Zoom Connection cloud, and from the cloud to the Zoom Data Centers and Public Cloud.</p> <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p> |

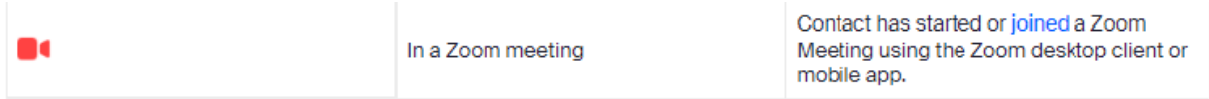
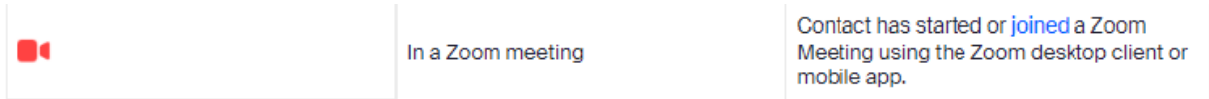
| Claims of US Patent No. 11,546,548 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|                                    | <p>As shown in the figure above, a Zoom hardware partner device, such as the DTEN D7 running Zoom Rooms and a Zoom user's device (e.g., desktop computers or mobile devices) with the Zoom Client installed serves as a transmission terminal. This transmission terminal communicates with Zoom's video conference management apparatus through Zoom Connection (e.g., a cloud network) to establish and participate in a video conference session.</p> <p>The attendance states of users who participate in a Zoom meeting are monitored and managed by Zoom's video conference management apparatus. When a change in an attendance state occurs, the attendance state is updated by Zoom's video conference management apparatus accordingly.</p> <p>As shown in the figure below, Zoom's video conference management apparatus is able to update attendance states of a plurality of transmission terminals (e.g., Online, Available, Busy, Away, Do not disturb, In a Zoom meeting, Presenting, On a call, In a calendar event, Out of Office and the like).</p> |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                                                                                                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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|                                                                                                                                                                                                                                                                                                                                          |  <p><a href="https://support.zoom.us/hc/en-us/articles/360032554051-Setting-your-presence-status">https://support.zoom.us/hc/en-us/articles/360032554051-Setting-your-presence-status</a> (accessed on July 21, 2026).</p>                                                                                                                                                                                                                                                                                                                               |
| <p>1[a] a storage medium configured to store first information including a first identification name and a first attendance state associated with the first transmission terminal, and second information including a second identification name and a second attendance state associated with the second transmission terminal; and</p> | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus includes a storage medium configured to store first information including a first identification name and a first attendance state associated with the first transmission terminal, and second information including a second identification name and a second attendance state associated with the second transmission terminal.</p> <p>For example, Zoom’s video conference management apparatus includes a Zoom server having a storage medium (e.g., a memory) configured to store identification information (e.g., a participant’s name) and</p> |

| Claims of US Patent No. 11,546,548 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                                    | <p>attendance state (e.g., status icons such as Offline, Available, Away, Busy, In a Zoom meeting, On a call, etc.) associated with the respective participant's transmission terminal.</p> <p>attendance state</p>  <p>identification name</p> <p>Zoom further discloses that user status icons (e.g., Offline, Available, Busy, Away, Do not disturb, In a Zoom meeting, On a call, etc.) may be visible. And some of these statuses may also be automatically set, such as being in a meeting or on a call.</p> |

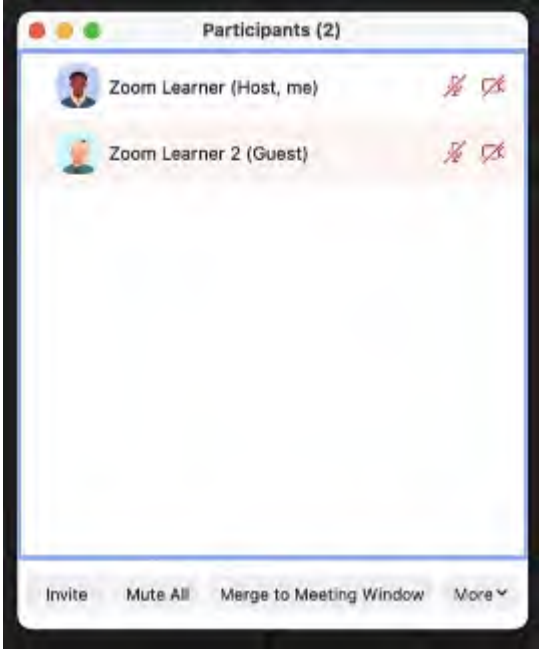
| Claims of US Patent No. 11,546,548 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|                                    |  <p>See <a href="https://support.zoom.us/hc/en-us/articles/360032554051-Setting-your-presence-status">https://support.zoom.us/hc/en-us/articles/360032554051-Setting-your-presence-status</a> (accessed on July 21, 2026).</p> <p>On information and belief, and for at least the foregoing reasons, Zoom’s video conference management apparatus includes a storage medium configured to store information, including identification names and attendance state information, for transmission terminals participating in a Zoom meeting and to transmit such information to the respective transmission terminals for purposes of the video conference.</p> |
| 1[b] circuitry configured to:      | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus includes circuitry.</p> <p>For example, Zoom’s video conference management apparatus includes a Zoom server having circuitry configured to perform video conferencing services, including managing meeting sessions, processing communications, updating attendance state information and coordinating interactions among transmission terminals.</p>                                                                                                                                                                                                                                                                                                      |

| Claims of US Patent No. 11,546,548                                                                                                                                            | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|                                                                                                                                                                               | <p><b>Core Concepts and Components</b></p> <p>Prior to diving into the process, it's important to understand the key components involved within the connection flow and their role with Zoom's architecture.</p>  <p>The diagram illustrates Zoom's architecture. At the top left, the 'Zoom Client' box contains icons for 'Zoom Room', 'Desktop', and 'Mobile'. At the top right, the 'Zoom Web Infrastructure' box contains a gear icon. In the center, a 'Zoom Connection' cloud icon connects to the client and infrastructure. Below this, three 'Zoom Data Center' boxes are shown. Each data center contains a grid of components: 'ZC' (Zoom Client) and 'MMR' (Media Resource Module) units, an 'HTTP Tunnel', and a 'Meeting Zone'. The 'Public Cloud' box also contains an 'HTTP Tunnel' and an 'HTTP' label at the bottom. Arrows indicate the flow of data and connections between these components.</p> <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p> |
| <p>1[c] update the first attendance state associated with the first transmission terminal to a state indicating that the first transmission terminal is attending a video</p> | <p>The Accused Instrumentality such as Zoom's video conference management apparatus includes circuitry configured to update the first attendance state associated with the first transmission terminal to a state</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

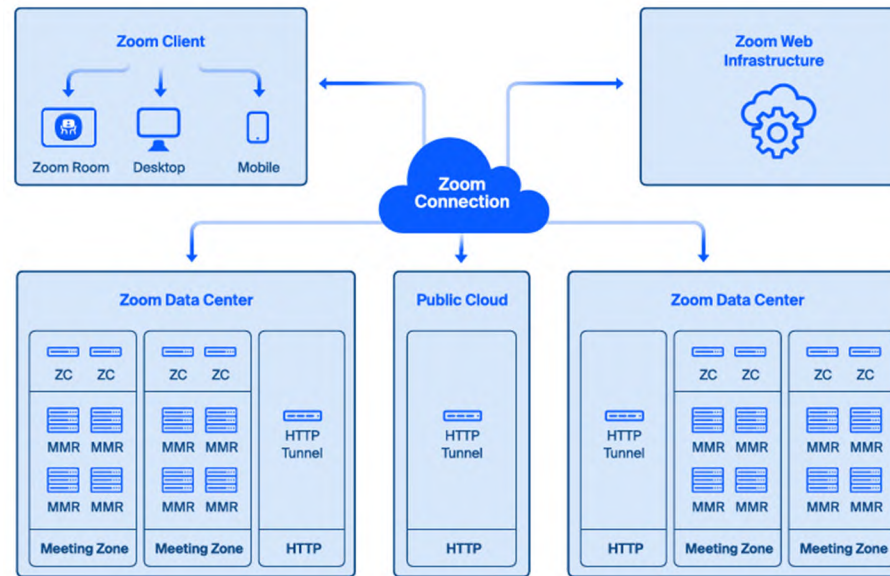
| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                                        | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <p>communication, based on attendance request information for video communication received from the first transmission terminal;</p>                                                                                                                                      | <p>indicating that the first transmission terminal is attending a video communication, based on attendance request information for video communication received from the first transmission terminal.</p> <p>A non-limiting example is shown below:</p> <div>  </div> <p><a href="https://support.zoom.us/hc/en-us/articles/360032554051-Setting-your-presence-status">https://support.zoom.us/hc/en-us/articles/360032554051-Setting-your-presence-status</a> (accessed on July 21, 2026).</p> <p>A user can join the meeting from a Zoom desktop client or a mobile application, for example, by clicking a “Join” button (e.g., attendance request information). In response to the attendance request being received from a transmission terminal (e.g., the first transmission terminal), the Zoom’s video conference management apparatus allows the user to join the Zoom meeting, and update its attendance state, for example, from an attendance state (e.g., “Offline,” “Available,” etc.) to an updated attendance state (e.g., “In a Zoom meeting.”) The updated attendance state indicates that the transmission terminal is in a Zoom meeting and attending the video communication.</p> |
| <p>1[d] update, when the second transmission terminal attends the video communication, the second attendance state associated with the second transmission terminal to a state indicating that the second transmission terminal is attending the video communication;</p> | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus includes circuitry configured to update, when the second transmission terminal attends the video communication, the second attendance state associated with the second transmission terminal to a state indicating that the second transmission terminal is attending the video communication.</p> <p>A non-limiting example is shown below:</p> <div>  </div> <p><a href="https://support.zoom.us/hc/en-us/articles/360032554051-Setting-your-presence-status">https://support.zoom.us/hc/en-us/articles/360032554051-Setting-your-presence-status</a> (accessed on July 21, 2026).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                                                                                                                                                                                                                                                                                                                                  | <p>attendance state</p>  <p>identification name</p> <p>On information and belief, when another transmission terminal (the second transmission terminal) attends the Zoom meeting, the Zoom's video conference management apparatus similarly updates its attendance state, for example, from an attendance state (e.g., "Offline," "Available," etc.) to an updated attendance state (e.g., "In a Zoom meeting"). The updated attendance state indicates that the other transmission terminal is in a Zoom meeting and attending the video communication with the first transmission terminal.</p> <p><i>See also, e.g., supra Claim 1[c].</i></p> |
| <p>1[e] acquire information including an identification name associated with a transmission terminal with which an attendance state is associated and in which the attendance state indicates that the transmission terminal is attending the video communication, from the storage medium; and</p> | <p>The Accused Instrumentality such as Zoom's video conference management apparatus includes circuitry configured to acquire information including an identification name associated with a transmission terminal with which an attendance state is associated and in which the attendance state indicates that the transmission terminal is attending the video communication, from the storage medium.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                                                                                                                                  |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                                                                                                                                          | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                                                                                                                                                                                                                                                                                                                                                                             | <p>attendance state</p>  <p>identification name</p> <p>As shown in the figure above, an identification name (e.g., Osaka yy planning team) and its attendance state (e.g., in a Zoom meeting) are displayed in a Zoom meeting. On information and belief, Zoom's video conference management apparatus (e.g., a Zoom server) is configured to acquire such information from the storage medium (e.g., a memory of the Zoom's server).</p> |
| <p>1[f] transmit the acquired information to the first transmission terminal, wherein the acquired information is used in order to display an identification name list of sites including the first transmission terminal and the second transmission terminal which are attending the video communication during the video communication,</p> | <p>The Accused Instrumentality such as Zoom's video conference management apparatus includes circuitry configured to transmit the acquired information to the first transmission terminal, where the acquired information is used in order to display an identification name list of sites including the first transmission terminal and the second transmission terminal which are attending the video communication during the video communication.</p> <p>A non-limiting example is shown below:</p>                                               |

| Claims of US Patent No. 11,546,548                                                                                                                                          | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|                                                                                                                                                                             |  <p>As shown in the figure above, the acquired information (e.g., identification names of the transmission terminals) is transmitted to the first transmission terminal and is used to display an identification name list of sites including the first transmission terminal and the second transmission terminal (e.g., a list of participants' names for the transmission terminals attending the Zoom meeting).</p> |
| <p>1[g] wherein the first transmission terminal is configured to display video images from each transmission terminal attending the video communication simultaneously.</p> | <p>The Accused Instrumentality such as Zoom's video conference management apparatus is a transmission management apparatus for updating attendance states of a plurality of transmission terminals including a first transmission terminal and a second transmission terminal, where the first transmission terminal is configured to display video images from each transmission terminal attending the video communication simultaneously.</p> <p>A non-limiting example is shown below:</p>            |

| Claims of US Patent No. 11,546,548                                                                                                                             | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                                                                                                                                                                |  <p><a href="https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0066807">https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0066807</a> (accessed on June 30, 2026)</p> <p>As shown in the figure above, a transmission terminal displays video images from each transmission terminal attending the video communication simultaneously. The identification name and attendance state associated with each transmission terminal are displayed on the participants panel.</p> |
| <p>2. The transmission management apparatus of claim 1, wherein the storage medium stores a terminal management table that contains the first information.</p> | <p>The Accused Instrumentality such as Zoom's video conference management apparatus is the transmission management apparatus of claim 1, where the storage medium stores a terminal management table that contains the first information.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                                                                                                           |



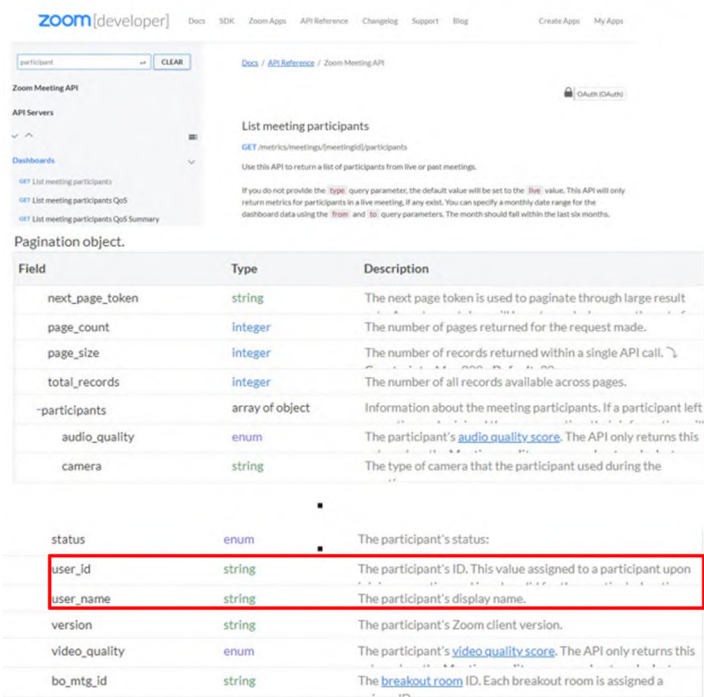
Source: Zoom Connection Process Whitepaper, January 2025.

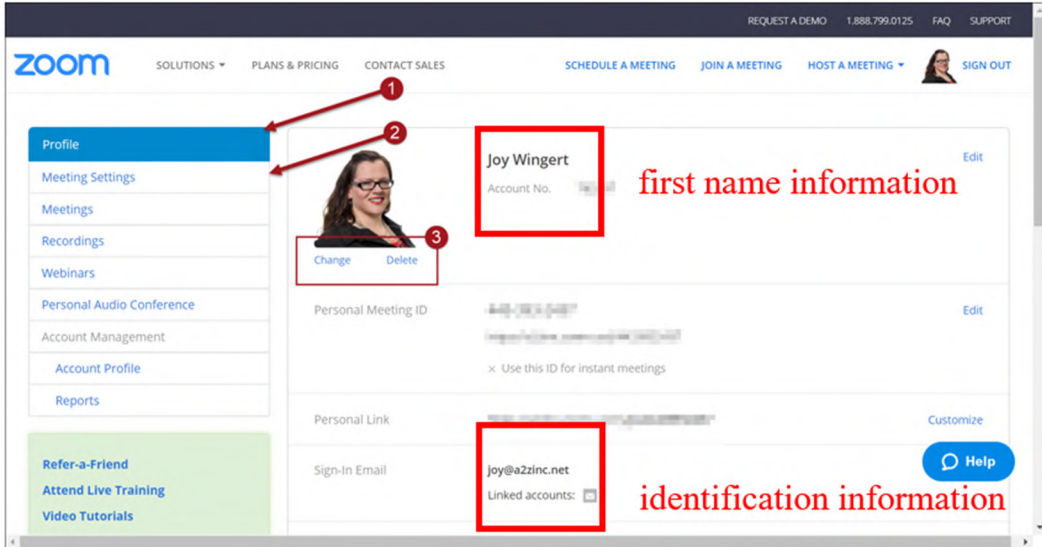
(<https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&ampSessionId=1767052800553>)

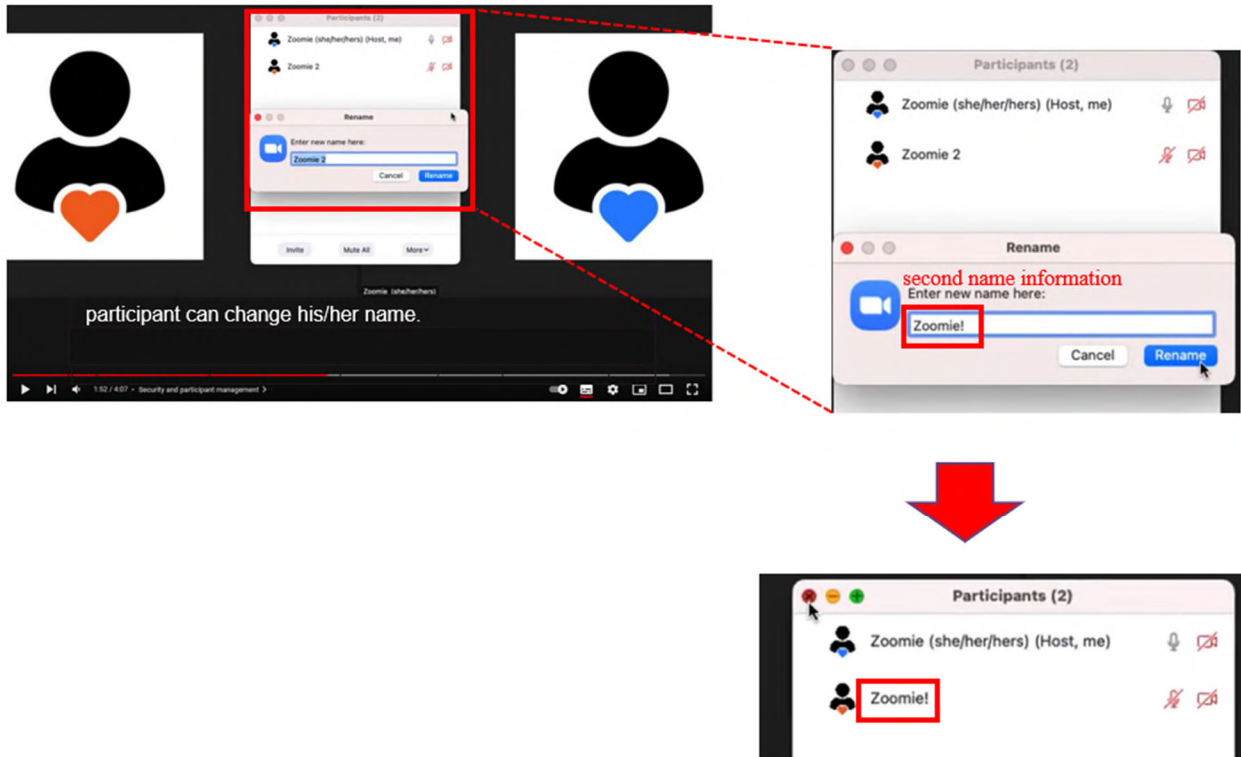
Zoom further discloses that a meeting/webinar participant report allows you to view the total number of participants and the full list of participants who joined, including their names, their email addresses, and when they joined and left the Zoom meeting.

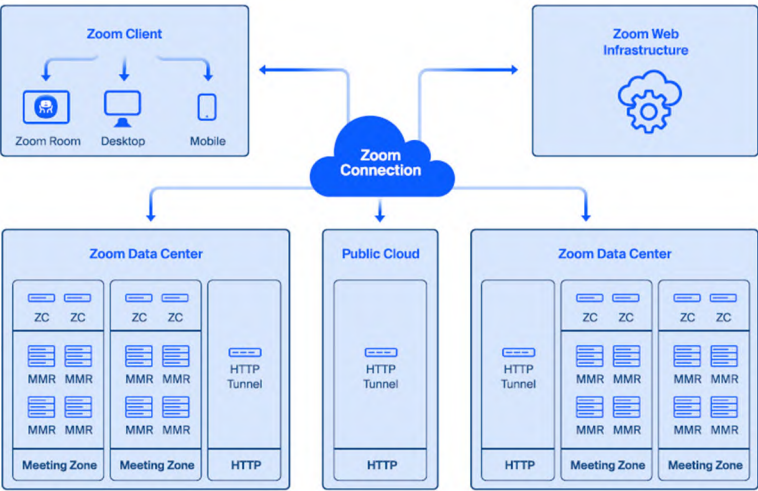
See [https://support.zoom.com/hc/en/article?id=zm\\_kb&sysparm\\_article=KB0073594](https://support.zoom.com/hc/en/article?id=zm_kb&sysparm_article=KB0073594) (accessed on July 22, 2026)

On information and belief, the storage medium (e.g., a memory cell of a Zoom server) stores a terminal management table that contains the first information (e.g., a participant's name, attendance information and the like).

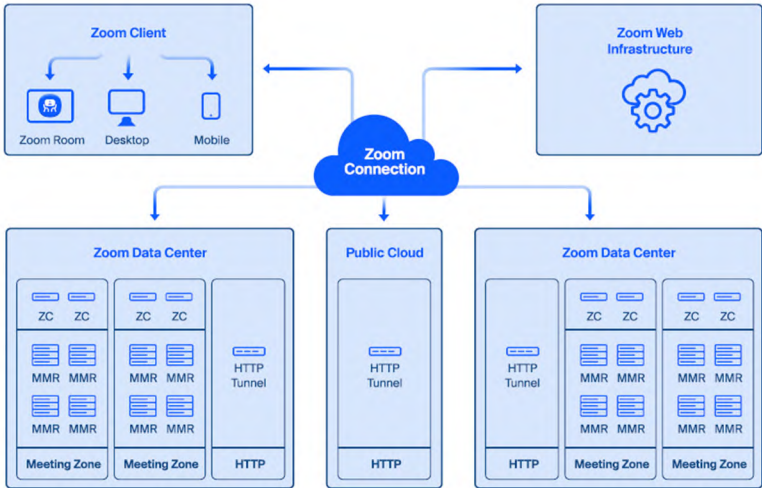
| Claims of US Patent No. 11,546,548                                                                                                                                                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <p>3. The transmission management apparatus of claim 1, wherein the storage medium stores a first identifier for identifying the first transmission terminal and a second identifier for identifying the second transmission terminal.</p> | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus is the transmission management apparatus of claim 1, where the storage medium stores a first identifier for identifying the first transmission terminal and a second identifier for identifying the second transmission terminal.</p> <p>A non-limiting example is shown below:</p> <div><div><h3>Zoom Meeting API</h3><p>that returns a list of participants in response to a request sent with a Meeting ID</p><p>Specific Example</p></div><div><p>EXAMPLE SCHEMA</p><p>Pagination object.</p><pre>{   "next_page_token": "Tva2CuldTgsvwAnhyAdU3m06Y2HuLQth3",   "page_count": 1,   "page_size": 30,   "total_records": 1,   "participants": [     {       "audio_quality": "good",       "camera": "FaceTime HD Camera",       "connection_type": "UOPI",       "customer_key": "349589LklyeW",       "data_center": "United States (SC Top)",       "device": "Phone",       "domain": "example.com",       "email": "user@example.com",       "from_sip_uri": "example.com",       "full_data_center": "United States (SC Top)",       "harddisk_id": "Disk01",       "id": "zKjyAlAyTNC-MWfjWC18KQ",       "in_room_participants": 2,       "ip_address": "10.100.111.8",       "join_time": "2022-03-01T10:15:14Z",       "leave_reason": "Host ended the meeting",       "leave_time": "2022-03-01T10:17:35Z",       "location": "United States",       "mac_addr": "B5E-a012-92d8",       "microphone": "Microphone (2- High Definition Audio Device)",       "network_type": "Wired",       "participant_user_id": "DYHrdpjrS3usOf7dPkkg8w",       "pc_name": "HW0010449",       "recording": false,       "registrant_id": "fdgsfh2ey82fuh",       "role": "host",       "screen_share_quality": "good",       "share_application": true,       "share_desktop": true,       "share_whiteboard": true,       "sip_uri": "example.com",       "speaker": "speaker (2- High Definition Audio Device)",       "status": "in_meeting",       "user_id": "20162560",       "user_name": "Schiller",       "version": "5.9.1.2581",       "video_quality": "good",       "bo_mtg_id": "Dkgvu8nmvExG1vM+GHLRbA=="     }   ] }</pre></div></div> |

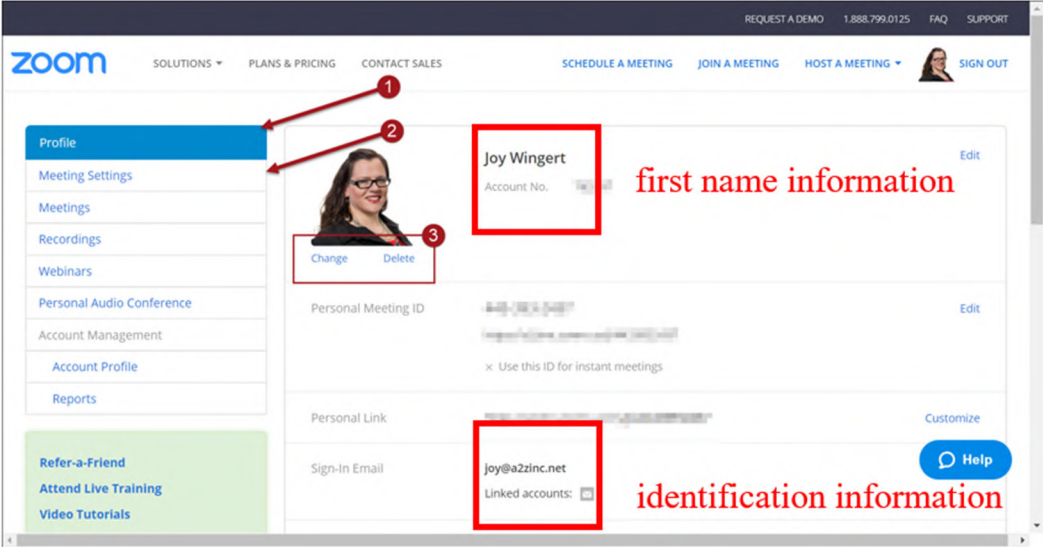
| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                                                                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|                                                                                                                                                                                                                                                                                                          | <p>As shown in the figure above, Zoom’s video conference management apparatus is configured to store information, such as user_id and user_name on one or more of its servers for the purposes of identifying the respective transmission terminals for a Zoom meeting.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>4. The transmission management apparatus of claim 1, wherein the identification name associated with a particular transmission terminal of the plurality of transmission terminals is information to be registered or changed in response to a request from the particular transmission terminal.</p> | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus is the transmission management apparatus of claim 1, where the identification name associated with a particular transmission terminal of the plurality of transmission terminals is information to be registered or changed in response to a request from the particular transmission terminal.</p> <p>A non-limiting example is shown below:</p>  <p>As shown in the figure above, the identification name (e.g., Joy Wingert) associated with a particular transmission terminal is information to be registered (e.g., a user’s request or input for registering name information).</p> |

| Claims of US Patent No. 11,546,548                                                                                                | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                                                                                                                                   | <p>Another non-limiting example is shown below:</p>  <p>As shown in the figure above, the identification name (e.g., Zoomie!) associated with a particular transmission terminal is information to be changed in response to a request from the particular transmission terminal (e.g., a user's request or input for changing identification name).</p> |
| <p>5. The transmission management apparatus of claim 1, wherein other transmission terminals of the plurality of transmission</p> | <p>The Accused Instrumentality such as Zoom's video conference management apparatus is the transmission management apparatus of claim 1, where other transmission terminals of the plurality of transmission</p>                                                                                                                                                                                                                            |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                        | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <p>terminals, which are other than the first transmission terminal and are attending a same conference, transmit or receive at least one of image data and sound data to or from each other via a relaying apparatus.</p> | <p>terminals, which are other than the first transmission terminal and are attending a same conference, transmit or receive at least one of image data and sound data to or from each other via a relaying apparatus.</p> <p>A non-limiting example is shown below:</p> <div> <p><b>Core Concepts and Components</b></p> <p>Prior to diving into the process, it's important to understand the key components involved within the connection flow and their role with Zoom's architecture.</p>  <p>The diagram illustrates Zoom's architecture. At the top left, the 'Zoom Client' box contains icons for 'Zoom Room', 'Desktop', and 'Mobile'. At the top right, the 'Zoom Web Infrastructure' box contains a cloud icon. In the center, the 'Zoom Connection' box is a cloud icon. Below these, there are three boxes: 'Zoom Data Center' on the left, 'Public Cloud' in the middle, and 'Zoom Data Center' on the right. The 'Zoom Data Center' boxes contain 'ZC' (Zoom Client) and 'MMR' (Meeting Media Relay) icons, along with 'Meeting Zone' and 'HTTP Tunnel' labels. The 'Public Cloud' box contains an 'HTTP Tunnel' label. Arrows indicate the flow of data between these components.</p> </div> <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p> <p>A plurality of transmission terminals such as a Zoom hardware partner device (e.g., DTEN D7 running Zoom Rooms) and Zoom users' device (e.g., desktop computers or mobile devices) with the Zoom Client installed</p> |

| Claims of US Patent No. 11,546,548                                                                                                                                                                    | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                                                                                                                                                                                                       | <p>communicate with Zoom’s video conference management apparatus through Zoom Connection (e.g., a cloud network) to establish a video conference session.</p> <p>On information and belief, other transmission terminals are configured to transmit or receive at least one of image data and sound data to or from each other via a relaying apparatus. For example, Zoom discloses that Zoom Multimedia Router (MMR) is responsible for hosting Zoom meetings and webinars, and these servers ensure that the rich offering of voice, video, and content are properly distributed between all participants in a given session. Zoom further states that, with the ideal Zoom Meeting Zone selection from the previous phase, the client then requests details of the best Zoom Multimedia Router (MMR) from the Zoom Zone Controller. Once identified, the Zoom Client reaches out to the MMR directly to establish a control channel for the session. This connection leverages a protocol developed by Zoom which communicates via SSL on port 443. <i>See</i> pages 4-5, Zoom Connection Process Whitepaper, January 2025.</p> |
| <p>6. The transmission management apparatus of claim 1, wherein each of the plurality of transmission terminals is one of a video conference terminal, a car navigation device, and a cell phone.</p> | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus is the transmission management apparatus of claim 1, where each of the plurality of transmission terminals is one of a video conference terminal, a car navigation device, and a cell phone.</p> <p>A non-limiting example is shown below:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

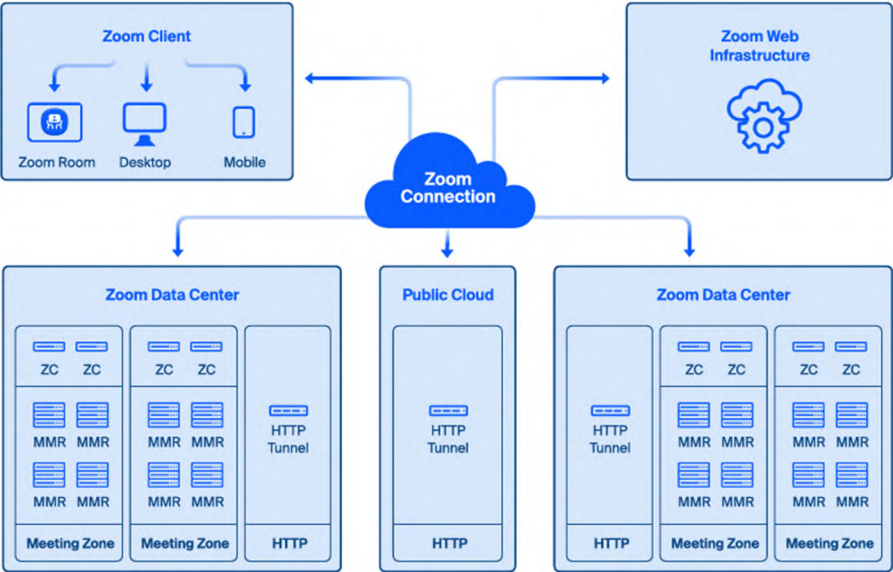
| Claims of US Patent No. 11,546,548                                                                                                                                         | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|                                                                                                                                                                            | <p><b>Core Concepts and Components</b></p> <p>Prior to diving into the process, it's important to understand the key components involved within the connection flow and their role with Zoom's architecture.</p>  <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a></p> <p>Each of the transmission terminals such as a Zoom hardware partner device (e.g., DTEN D7 running Zoom Rooms) and a Zoom user's device (e.g., desktop computers or mobile devices) with the Zoom Client installed is one of a video conference terminal and a cell phone.</p> |
| <p>7. The transmission management apparatus of claim 1, wherein the first identification name is stored in the storage medium in association with first identification</p> | <p>The Accused Instrumentality such as Zoom's video conference management apparatus is the transmission management apparatus of claim 1, where the first identification name is stored in the storage medium in</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <p>information, and the second identification name is stored in the storage medium in association with second identification information.</p>                                                                                                      | <p>association with first identification information, and the second identification name is stored in the storage medium in association with second identification information.</p> <p>A non-limiting example is shown below:</p>  <p>As shown in the figure above, the identification name (e.g., Joy Wingert) is associated with identification information (e.g., account login information) and is stored on one or more of Zoom's servers.</p> |
| <p>8. The transmission management apparatus of claim 1, wherein a destination list associated with first identification information transmitted from the first transmission terminal is stored in the storage medium, and the destination list</p> | <p>The Accused Instrumentality such as Zoom's video conference management apparatus is the transmission management apparatus of claim 1, where a destination list associated with first identification information transmitted from the first transmission terminal is stored in the storage medium, and the destination list registers at least the second transmission terminal as a destination candidate.</p> <p>A non-limiting example is shown below:</p>                                                                       |

| Claims of US Patent No. 11,546,548                                                     | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <p>registers at least the second transmission terminal as a destination candidate.</p> |  <p>The screenshot shows a Zoom meeting interface. At the top, there is a header bar with the text 'Zoom Meeting' and a 'View' button. Below this, there is a row of five small video thumbnails of participants: Victoria Reyes, Henry Park, Marketing Huddle, Casey Cunningham, and Mike Nolan. The main area of the screen shows a large video of Henry Park, who is wearing a headset. At the bottom of the screen, there is a toolbar with icons for Mute, Stop Video, Security, Participants, Chat, Share Screen, Record, and Reactions. On the right side, there is a 'Participants' panel. It has a search bar at the top. Below the search bar, there are two sections: 'Waiting Room (2)' and 'Joined (3)'. The 'Waiting Room (2)' section lists two participants: Casey Cast and Mike Nolan. The 'Joined (3)' section lists three participants: Marketing Huddle, Victoria Reyes (Host, You), and Henry Park. Below these sections, there is a 'Not Joined (4)' section. It lists four participants: Stephen Hill (Accepted), Christian Park (Maybe), Henry Park (Declined), and Abe Nolan (No response). At the bottom of the panel, there are buttons for 'Invite' and 'Mute All'.</p> <p><a href="https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0066807">https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0066807</a> (accessed on June 30, 2026)</p> <p>As shown in the figure above and on information and belief, a destination list (e.g., a list of participants' names corresponding to the respective transmission terminals) associated with first identification information is transmitted from a transmission terminal and is stored in the memory of a Zoom server. The destination list includes at least another transmission terminal as a destination candidate (e.g., a participant's name of the other transmission terminal).</p> |
| <p>9[pre] A method comprising:</p>                                                     | <p>To the extent the preamble is limiting, the Accused Instrumentality performs a method.</p> <p>For example, Zoom's video conference management apparatus may include, without limitation, at least one of Zoom Web Infrastructure, Zoom Data Centers, Zoom Cloud, and/or other server-side components and performs a method for providing video conferencing services.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                                                                                     | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|                                                                                                                                                                                                                                                                                                                        | <i>See also, e.g., supra</i> Claim 1[pre].                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 9[a] updating attendance states of a plurality of transmission terminals including a first transmission terminal and a second transmission terminal;                                                                                                                                                                   | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus performs a method of updating attendance states of a plurality of transmission terminals including a first transmission terminal and a second transmission terminal.</p> <p><i>See also, e.g., supra</i> Claim 1[pre].</p>                                                                                                                                                                 |
| 9[b] storing, in a storage medium, first information including a first identification name and a first attendance state associated with the first transmission terminal, and second information including a second identification name and a second attendance state associated with the second transmission terminal; | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus performs a method of storing, in a storage medium, first information including a first identification name and a first attendance state associated with the first transmission terminal, and second information including a second identification name and a second attendance state associated with the second transmission terminal.</p> <p><i>See also, e.g., supra</i> Claim 1[a].</p> |
| 9[c] updating the first attendance state associated with the first transmission terminal to a state indicating that the first transmission terminal is attending a video communication, based on attendance request information for video communication received from the first transmission terminal;                 | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus performs a method of updating the first attendance state associated with the first transmission terminal to a state indicating that the first transmission terminal is attending a video communication, based on attendance request information for video communication received from the first transmission terminal.</p> <p><i>See also, e.g., supra</i> Claim 1[c].</p>                 |
| 9[d] updating when the second transmission terminal attends the video communication, the second attendance state associate with the second transmission terminal to a state indicating that the                                                                                                                        | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus performs a method of updating when the second transmission terminal attends the video communication, the second attendance state associated with the second transmission terminal to a state indicating that the second transmission terminal is attending the video communication.</p>                                                                                                    |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                                                                                                              | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| second transmission terminal is attending the video communication;                                                                                                                                                                                                                                                                              | <i>See also, e.g., supra</i> Claim 1[d].                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 9[e] acquiring information including an identification name associated with a transmission terminal with which an attendance state is associated and in which the attendance state indicates that the transmission terminal is attending the video communication, from the storage medium;                                                      | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus performs a method of acquiring information including an identification name associated with a transmission terminal with which an attendance state is associated and in which the attendance state indicates that the transmission terminal is attending the video communication, from the storage medium.</p> <p><i>See also, e.g., supra</i> Claim 1[e].</p>                                                  |
| 9[f] transmitting the acquired information to the first transmission terminal, wherein the acquired information is used in order to display an identification name list of sites including the first transmission terminal and the second transmission terminal which are attending the video communication during the video communication; and | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus performs a method of transmitting the acquired information to the first transmission terminal, wherein the acquired information is used in order to display an identification name list of sites including the first transmission terminal and the second transmission terminal which are attending the video communication during the video communication.</p> <p><i>See also, e.g., supra</i> Claim 1[f].</p> |
| 9[g] displaying, by the first transmission terminal, video images from each transmission terminal attending the video communication simultaneously.                                                                                                                                                                                             | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus performs a method of displaying, by the first transmission terminal, video images from each transmission terminal attending the video communication simultaneously.</p> <p><i>See also, e.g., supra</i> Claim 1[g].</p>                                                                                                                                                                                         |
| 10[pre] A system comprising:                                                                                                                                                                                                                                                                                                                    | <p>To the extent preamble is limiting, a system that incorporates the Accused Instrumentality directly infringes claim 10 of the ’548 Patent.</p> <p>For example, a transmission terminal such as a Zoom hardware partner device (e.g., the DTEN D7) and a Zoom user’s device, and a Zoom’s video conference management apparatus constitute a system. Zoom’s video conference management apparatus may include, without limitation, at least one of Zoom Web Infrastructure,</p>                   |

| Claims of US Patent No. 11,546,548 | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                                    | <p>Zoom Data Centers, Zoom Cloud and/or any third-party cloud services utilized by Zoom, and/or other server-side components that perform or facilitate Zoom account authentication, Zoom account information management, transmission terminal management, and video conferencing services.</p> <p>A non-limiting example is shown below:</p>  <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p> <p>As shown in the figure above, a Zoom hardware partner device, such as the DTEN D7 running Zoom Rooms or a Zoom user's device (e.g., desktop computers or mobile devices) with the Zoom Client installed serves as a transmission terminal. The transmission terminal communicates with Zoom's video conference management</p> |

| Claims of US Patent No. 11,546,548              | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|                                                 | <p>system through Zoom Connection (e.g., a cloud network) to establish and participate in a video conference session.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>10[a] a first transmission terminal; and</p> | <p>The system includes a first transmission terminal.</p> <p>For example, a Zoom hardware partner device, such as the DTEN D7, and/or a Zoom user's device is a first transmission terminal.</p> <p>A non-limiting example is shown below:</p> <p>The <b>DTEN D7</b> is a complete <b>ZOOM</b> Rooms TOUCH conferencing installation, including all hardware and software. The built-in, AI enhanced, 16 element microphone array with 4K camera, offers a best-in-class conferencing, wireless, screen sharing, and white boarding experience. <i>(All software is pre-installed.)</i></p> <p><a href="https://help.dten.com/hc/en-us/article_attachments/900006433903">https://help.dten.com/hc/en-us/article_attachments/900006433903</a> (accessed on July 9, 2025).</p> <p>Non-limiting examples of Zoom user's devices such as desktop computers, laptops, and mobile devices (regardless of hardware brand) are shown below:</p> |

**Claims of US Patent No. 11,546,548**

**ACCUSED INSTRUMENTALITY**



<https://wigatos.com/22172-cara-zoom-meeting-di-laptop/> (accessed on July 7, 2026).



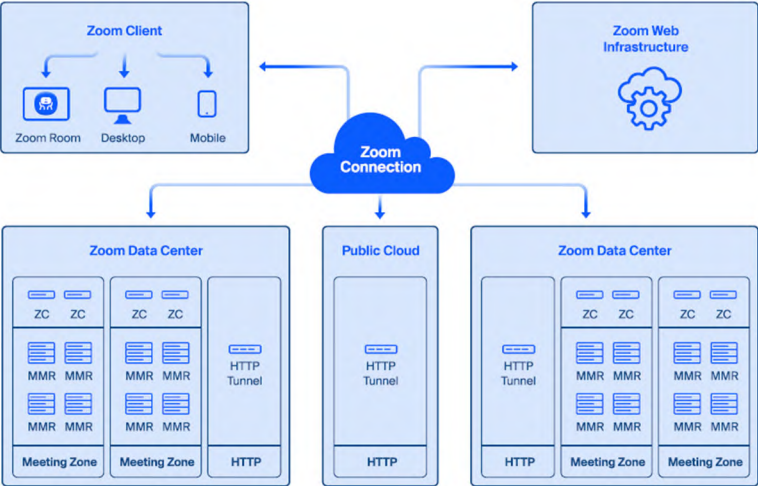
<https://dailybruin.com/2024/04/23/research-reveals-delaying-in-person-medical-residency-visits-can-reduce-inequities> (accessed on July 7, 2026).

| Claims of US Patent No. 11,546,548       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                                          |  <p><a href="https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/">https://www.howtogeek.com/662339/how-to-join-a-zoom-meeting/</a> (accessed on July 7, 2026).</p> <p>On information and belief, Zoom supplies its proprietary software that, upon activation, engagement, or use by any user or operator, takes functional control of the underlying hardware on which it runs, regardless of the make, brand, or original configuration of that hardware. Once Zoom’s software is installed and activated, the host device—whether a desktop computer, laptop, tablet, smartphone, conference room system such as DTEN D7, or other computing device—ceases to function as a general-purpose machine with respect to the claimed functionalities and instead operates as a Zoom special purpose computer: a device that is directed, managed, and/or controlled by Zoom’s proprietary software to perform the specific functions of video conferencing. Accordingly, the Accused Instrumentalities encompass not only Zoom’s software but also any hardware device on which Zoom’s software is activated, engaged, or used, as such devices become a Zoom special purpose computer for purposes of the infringing acts described herein.</p> |
| 10[b] a management apparatus comprising: | <p>The system includes a management apparatus.</p> <p>For example, Zoom’s video conference management apparatus is a management system.</p> <p><i>See, e.g., supra</i> Claim 1[pre].</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                                                                                           | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <p>10[c] a storage medium configured to store first information including an identification name and a first attendance state associated with the first transmission terminal, and second information including an identification name and a second attendance state associated with a second transmission terminal; and</p> | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus includes a storage medium configured to store first information including an identification name and a first attendance state associated with the first transmission terminal, and second information including an identification name and a second attendance state associated with a second transmission terminal.</p> <p><i>See, e.g., supra</i> Claim 1[a].</p>             |
| <p>10[d] circuitry configured to:</p>                                                                                                                                                                                                                                                                                        | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus includes circuitry.</p> <p><i>See, e.g., supra</i> Claim 1[b].</p>                                                                                                                                                                                                                                                                                                              |
| <p>10[e] update the first attendance state associated with the first transmission terminal to a state indicating that the first transmission terminal is attending a video communication, based on attendance request information for video communication received from the first transmission terminal,</p>                 | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus includes circuitry configured to update the first attendance state associated with the first transmission terminal to a state indicating that the first transmission terminal is attending a video communication, based on attendance request information for video communication received from the first transmission terminal.</p> <p><i>See, e.g., supra</i> Claim 1[c].</p> |
| <p>10[f] update, when the second transmission terminal attends the video communication, the second attendance state associated with the second transmission terminal to a state indicating that the second transmission terminal is attending the video communication,</p>                                                   | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus includes circuitry configured to update, when the second transmission terminal attends the video communication, the second attendance state associated with the second transmission terminal to a state indicating that the second transmission terminal is attending the video communication.</p> <p><i>See, e.g., supra</i> Claim 1[d].</p>                                   |
| <p>10[g] acquire information including an identification name associated with a</p>                                                                                                                                                                                                                                          | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus includes circuitry configured to acquire information including an identification name associated with a transmission terminal</p>                                                                                                                                                                                                                                               |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                                              | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                               |
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| transmission terminal with which an attendance state is associated and in which the attendance state indicates that the transmission terminal is attending the video communication, from the storage medium, and                                | with which an attendance state is associated and in which the attendance state indicates that the transmission terminal is attending the video communication, from the storage medium.<br><br><i>See, e.g., supra</i> Claim 1[e].                                                                                                                                                                                                     |
| 10[h] transmit the acquired information to the first transmission terminal, and the first transmission terminal is configured to receive the acquired information from the management apparatus, and                                            | The Accused Instrumentality such as Zoom's video conference management apparatus includes circuitry configured to transmit the acquired information to the first transmission terminal, and the first transmission terminal is configured to receive the acquired information from the management apparatus.<br><br><i>See, e.g., supra</i> Claim 1[f].                                                                               |
| 10[j] display an identification name list of sites including the first transmission terminal and the second transmission terminal which are attending the video communication, based on the acquire information during the video communication, | The system includes a first transmission terminal, where the first transmission terminal is configured to display an identification name list of sites including the first transmission terminal and the second transmission terminal which are attending the video communication, based on the acquire information during the video communication.<br><br><i>See, e.g., supra</i> Claim 1[f].                                        |
| 10[k] wherein the first transmission terminal is configured to display video images from each transmission terminal attending the video communication simultaneously.                                                                           | The system includes a first transmission terminal, where the first transmission terminal is configured to display video images from each transmission terminal attending the video communication simultaneously.<br><br><i>See, e.g., supra</i> Claim 1[g].                                                                                                                                                                           |
| 11. The system of claim 10, wherein the management apparatus is configured to:<br><br>receive an information request signal from the first transformation terminal when the                                                                     | A transmission terminal such as a Zoom hardware partner device (e.g., the DTEN D7) and a Zoom user's device, and a Zoom's video conference management apparatus, for example, constitute the system of claim 10, where the management apparatus is configured to receive an information request signal from the first transformation terminal when the first transmission terminal is in video communication with at least the second |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                       | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <p>first transmission terminal is in video communication with at least the second transmission terminal, the information request signal indicating a request for information on a transmission terminal, including the second transmission terminal.</p> | <p>transmission terminal, the information request signal indicating a request for information on a transmission terminal, including the second transmission terminal.</p> <p>A non-limiting example is shown below:</p>  <p><a href="https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0066807">https://support.zoom.com/hc/en/article?id=zm_kb&amp;sysparm_article=KB0066807</a> (accessed on June 30, 2026)</p> <p>As shown in the figure above and on information and belief, Zoom's video conference management apparatus (e.g., a Zoom server) is configured to receive an information request signal from a transmission terminal when it is in video communication with another transmission terminal. The information request signal may include any request for information on the other transmission terminal.</p> |

| Claims of US Patent No. 11,546,548                                                                                                               | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <p>12. The transmission management apparatus of claim 1, wherein the transmission management apparatus is composed of one or more computers.</p> | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus is the transmission management apparatus of claim 1, where the transmission management apparatus is composed of one or more computers.</p> <p>A non-limiting example is shown below:</p> <p><b>Core Concepts and Components</b></p> <p>Prior to diving into the process, it's important to understand the key components involved within the connection flow and their role with Zoom's architecture.</p>  <p>Source: Zoom Connection Process Whitepaper, January 2025.<br/> <a href="https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553">https://media.zoom.com/download/assets/Zoom+Connection+Process+Jan-09-2025.pdf/449a2ed2f05711ef907d5e9c08889a4d?ampDeviceId=9c3a8cf4-4d75-4618-883a-6cce1fe746ce&amp;ampSessionId=1767052800553</a>)</p> <p>As shown in the figure above, Zoom’s video conference management apparatus may include one or more servers which are computers.</p> |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                                                                                                                                                                                                                                        | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <p>13. The method of claim 9, wherein the transmission management apparatus is composed of one or more computers.</p>                                                                                                                                                                                                                                                                                                                                                     | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus performs the method of claim 9, where the transmission management apparatus is composed of one or more computers.</p> <p><i>See, e.g., supra</i> Claim 12.</p>                                                                                                                                                                                                                                                                                                                                                    |
| <p>14. The system of claim 10, wherein the transmission management apparatus is composed of one or more computers.</p>                                                                                                                                                                                                                                                                                                                                                    | <p>A transmission terminal such as a Zoom hardware partner device (e.g., the DTEN D7) and a Zoom user’s device, and a Zoom’s video conference management apparatus, for example, constitute the system of claim 10, where the transmission management apparatus is composed of one or more computers.</p> <p><i>See, e.g., supra</i> Claims 12 and 13.</p>                                                                                                                                                                                                                                            |
| <p>15. The transmission management apparatus of claim 1, wherein the transmission management apparatus is configured to:</p> <p>receive an information request signal from the first transmission terminal when the first transmission terminal is in video communication with at least the second transmission terminal, the information request signal indicating a request for information on a transmission terminal, including the second transmission terminal.</p> | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus is the transmission management apparatus of claim 1, where the transmission management apparatus is configured to receive an information request signal from the first transmission terminal when the first transmission terminal is in video communication with at least the second transmission terminal, the information request signal indicating a request for information on a transmission terminal, including the second transmission terminal.</p> <p><i>See, e.g., supra</i> Claim 11.</p>              |
| <p>16. The method of claim 9, further comprising:</p> <p>receiving, by the transmission management apparatus, an information request signal from the first transformation terminal when the first transmission terminal is in video communication with at least the second</p>                                                                                                                                                                                            | <p>The Accused Instrumentality such as Zoom’s video conference management apparatus performs the method of claim 9, further comprising receiving, by the transmission management apparatus, an information request signal from the first transformation terminal when the first transmission terminal is in video communication with at least the second transmission terminal, the information request signal indicating a request for information on a transmission terminal, including the second transmission terminal, with which the first transmission terminal is in video communication.</p> |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                                                            | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| transmission terminal, the information request signal indicating a request for information on a transmission terminal, including the second transmission terminal, with which the first transmission terminal is in video communication.                                                      | <i>See, e.g., supra</i> Claims 11 and 15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 17[pre] A non-transitory computer-readable storage medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform a method comprising:                                                                                                              | <p>To the extent the preamble is limiting, the Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform a method.</p> <p>For example, Zoom’s video conference management apparatus may include, without limitation, at least one of Zoom Web Infrastructure, Zoom Data Centers, Zoom Cloud, and/or other server-side components that has a non-transitory computer-readable storage medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform a method for providing video conferencing services.</p> <p><i>See also, e.g., supra</i> Claims 1[pre] and 9[pre].</p> |
| 17[a] storing first information including a first identification name and a first attendance state associated with a first transmission terminal, and second information including a second identification name and a second attendance state associated with a second transmission terminal; | <p>The Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform a method of storing first information including a first identification name and a first attendance state associated with a first transmission terminal, and second information including a second identification name and a second attendance state associated with a second transmission terminal.</p> <p><i>See also, e.g., supra</i> Claims 1[a] and 9[b].</p>                                                                                                                                                                                  |
| 17[b] updating the first attendance state associated with the first transmission terminal to a state indicating that the first transmission terminal is attending a video communication, based on attendance request information for video                                                    | <p>The Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform a method of updating the first attendance state associated with the first transmission terminal to a state indicating that the first transmission terminal is attending a video communication, based on attendance request information for video communication received from the first transmission terminal.</p>                                                                                                                                                                                                                                  |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                                                                                                      | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| communication received from the first transmission terminal;                                                                                                                                                                                                                                                                            | <i>See also, e.g., supra</i> Claims 1[c] and 9[c].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 17[c] updating when the second transmission terminal attends the video communication, the second attendance state associated with the second transmission terminal to a state indicating that the second transmission terminal is attending the video communication;                                                                    | <p>The Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform a method of updating when the second transmission terminal attends the video communication, the second attendance state associated with the second transmission terminal to a state indicating that the second transmission terminal is attending the video communication.</p> <p><i>See also, e.g., supra</i> Claims 1[d] and 9[d].</p>                                                                    |
| 17[d] acquiring information including an identification name associated with a transmission terminal with which an attendance state is associated and in which the attendance state indicates that the transmission terminal is attending the video communication; and                                                                  | <p>The Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform a method of acquiring information including an identification name associated with a transmission terminal with which an attendance state is associated and in which the attendance state indicates that the transmission terminal is attending the video communication.</p> <p><i>See also, e.g., supra</i> Claims 1[e] and 9[e].</p>                                                                      |
| 17[e] transmitting the acquired information to the first transmission terminal, wherein the acquired information is used for displaying an identification name list of sites including the first transmission terminal and the second transmission terminal which are attending the video communication during the video communication, | <p>The Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform a method of transmitting the acquired information to the first transmission terminal, wherein the acquired information is used for displaying an identification name list of sites including the first transmission terminal and the second transmission terminal which are attending the video communication during the video communication.</p> <p><i>See also, e.g., supra</i> Claims 1[f] and 9[f].</p> |
| 17[f] wherein the first transmission terminal is configured to display video images from each transmission terminal                                                                                                                                                                                                                     | The Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform a method, where the first                                                                                                                                                                                                                                                                                                                                                                                      |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                                                                             | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <p>attending the video communication simultaneously.</p>                                                                                                                                                                                                                       | <p>transmission terminal is configured to display video images from each transmission terminal attending the video communication simultaneously.</p> <p><i>See also, e.g., supra</i> Claims 1[g] and 9[g].</p>                                                                                                                                                                                                                                                                                         |
| <p>18. The method of claim 9, further comprising:</p> <p>storing a terminal management table that contains the first information.</p>                                                                                                                                          | <p>The Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform the method of claim 9, further comprising storing a terminal management table that contains the first information.</p> <p><i>See also, e.g., supra</i> Claim 2.</p>                                                                                                                                                |
| <p>19. The method of claim 9, further comprising:</p> <p>storing a first identifier for identifying the first transmission terminal and a second identifier for identifying the second transmission terminal.</p>                                                              | <p>The Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform the method of claim 9, further comprising storing a first identifier for identifying the first transmission terminal and a second identifier for identifying the second transmission terminal.</p> <p><i>See also, e.g., supra</i> Claim 3.</p>                                                                    |
| <p>20. The method of claim 9, wherein the identification name associated with a particular transmission terminal of the plurality of transmission terminals is information to be registered or changed in response to a request from the particular transmission terminal.</p> | <p>The Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform the method of claim 9, where the identification name associated with a particular transmission terminal of the plurality of transmission terminals is information to be registered or changed in response to a request from the particular transmission terminal.</p> <p><i>See also, e.g., supra</i> Claim 4.</p> |
| <p>21. The method of claim 9, wherein other transmission terminals of the plurality of transmission terminals, which are other than the first transmission terminal and are attending a same conference, transmit or</p>                                                       | <p>The Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform the method of claim 9, where other transmission terminals of the plurality of transmission terminals, which are other than the first</p>                                                                                                                                                                           |

| Claims of US Patent No. 11,546,548                                                                                                                                                                                                  | ACCUSED INSTRUMENTALITY                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| receive at least one of image data and sound data to or from each other via a relaying apparatus.                                                                                                                                   | transmission terminal and are attending a same conference, transmit or receive at least one of image data and sound data to or from each other via a relaying apparatus.<br><br><i>See also, e.g., supra</i> Claim 5.                                                                                                                                                                                                                                             |
| 22. The method of claim 9, wherein each of the plurality of transmission terminals is one of a video conference terminal, a car navigation device, and a cell phone.                                                                | The Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform the method of claim 9, where each of the plurality of transmission terminals is one of a video conference terminal, a car navigation device, and a cell phone.<br><br><i>See also, e.g., supra</i> Claim 6.                                                                      |
| 23[a] The method of claim 9, further comprising:<br><br>storing the first identification name in association with first identification information; and                                                                             | The Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform the method of claim 9, further comprising storing the first identification name in association with first identification information.<br><br><i>See also, e.g., supra</i> Claim 7.                                                                                               |
| 23[b] storing the second identification name in association with second identification information.                                                                                                                                 | The Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform the method of claim 9, further comprising storing the second identification name in association with second identification information.<br><br><i>See also, e.g., supra</i> Claim 7.                                                                                             |
| 24. The method of claim 9, further comprising:<br><br>storing a destination list associated with first identification information transmitted from the first transmission terminal, and the destination list registers at least the | The Accused Instrumentality includes a non-transitory computer-readable medium storing executable instructions, which when executed by circuitry, cause the circuitry to perform the method of claim 9, further comprising storing a destination list associated with first identification information transmitted from the first transmission terminal, and the destination list registers at least the second transmission terminal as a destination candidate. |

| Claims of US Patent No. 11,546,548                       | ACCUSED INSTRUMENTALITY               |
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| second transmission terminal as a destination candidate. | <i>See also, e.g., supra</i> Claim 8. |