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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/113,545	02/23/2023	Nobuaki KABUTO	093265-0106	2508

196212 7590 12/03/2024

Rimon PC - MWE
8300 Greensboro Dr.
Suite 500
McLean, VA 22102

EXAMINER
KURIEN, CHRISTEN A

ART UNIT	PAPER NUMBER
2421	

NOTIFICATION DATE	DELIVERY MODE
12/03/2024	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPTOmail@rimonlaw.com
eofficeaction@appcoll.com
karen.hagerman@rimonlaw.com

APPLICATION NO.	ISSUE DATE	PATENT NO.
18/113,545	03-Dec-2024	12160681

Rimon PC - MWE
8300 Greensboro Dr.
McLean, VA 22102

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at https://patentcenter.uspto.gov

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit https://www.uspto.gov/electronicgrants

IPR2025-01310; Samsung
Ex. 1002 - Page 2

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/113,545	12/03/2024	12160681	093265-0106	2508

196212 7590 11/13/2024

Rimon PC - MWE
8300 Greensboro Dr.
Suite 500
McLean, VA 22102

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at https://patentcenter.uspto.gov/. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at https://certifiedcopycenter.uspto.gov/index.html. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Center (https://patentcenter.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional inventors):

Nobuaki KABUTO, Kunitachi, JAPAN;
Yuya OGI, Yokohama, JAPAN;

APPLICANT(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional applicants):

MAXELL, LTD, Kyoto, JAPAN;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/113,545	**10/29/2024 09:49:03 AM Z ET**	**093265-0106**

Title of Invention

VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2508	FILED BY	Victor Rosette
PATENT CENTER #	67755379	AUTHORIZED BY	Tomoki Tanida
CUSTOMER #	196212	FILING DATE	02/23/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Nobuaki KABUTO

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 4141	**E20240S049517936**	**Victor Rosette**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1501	UTILITY ISSUE FEE	1200.00	1	1200.00
			TOTAL AMOUNT:	**$1,200.00**

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/113,545	**10/29/2024 09:49:03 AM Z ET**	**093265-0106**

Title of Invention

VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2508	FILED BY	Victor Rosette
PATENT CENTER #	67755379	FILING DATE	02/23/2023
CUSTOMER #	196212	FIRST NAMED INVENTOR	Nobuaki KABUTO
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Tomoki Tanida

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
093265-0106 Issue Fee.pdf	1	Issue Fee Payment (PTO-85B)	1887 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
093265-0106 Issue Fee.pdf	012926D9C7422B97479E16D7BE61CA0EF955BB60F6F8133AF AF4AAD59AA08601C82B00C8E39D6CE0BCC22F8CD56E51E2 1E9A9450F0C764FAFA62C7471AC266E9

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New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

196212 7590 09/30/2024
Rimon PC - MWE
8300 Greensboro Dr.
Suite 500
McLean, VA 22102

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

Victor Rosette	(Typed or printed name)
/Victor Rosette/	(Signature)
October 29, 2024	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/113,545	02/23/2023	Nobuaki KABUTO	093265-0106	2508

TITLE OF INVENTION: VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	12/30/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
KURIEN, CHRISTEN A	2421	725-115000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Rimon P.C.
2
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: MAXELL, LTD.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Kyoto, JAPAN

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

☒ Electronic Payment via the USPTO patent electronic filing system ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 50-5992

5. **Change in Entity Status** (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

☐ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

☐ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Tomoki Tanida/ Date October 29, 2024

Typed or printed name Tomoki Tanida Registration No 60,453

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United States Patent and Trademark Office
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www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

196212 7590 09/30/2024

Rimon PC - MWE
8300 Greensboro Dr.
Suite 500
McLean, VA 22102

EXAMINER	
KURIEN, CHRISTEN A	
ART UNIT	PAPER NUMBER
2421	

DATE MAILED: 09/30/2024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/113,545	02/23/2023	Nobuaki KABUTO	093265-0106	2508

TITLE OF INVENTION: VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS

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nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	12/30/2024

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

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Commissioner for Patents
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

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(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/113,545	02/23/2023	Nobuaki KABUTO	093265-0106	2508

TITLE OF INVENTION: VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	12/30/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
KURIEN, CHRISTEN A	2421	725-115000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via the USPTO patent electronic filing system ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

❑ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

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NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

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EXAMINER	
KURIEN, CHRISTEN A	
ART UNIT	PAPER NUMBER
2421	

DATE MAILED: 09/30/2024

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 18/113,545	Applicant(s) KABUTO et al.	
	Examiner CHRISTINE A KURIEN	Art Unit 2421	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 09/09/24.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 15-34 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some* c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/NATHAN J FLYNN/
Supervisory Patent Examiner, Art Unit 2421

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/113,545	KABUTO et al.
	Examiner	Art Unit
	CHRISTINE A KURIEN	2421

CPC - Searched*		
Symbol	Date	Examiner
(H04N5/44 or H04N21/2368 or H04N21/4112 or H04N21/43076 or H04N21/4341 or H04N21/43615 or H04N21/4363 or H04N21/44231 or H04N5/76).cpc.	09/27/2023	

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Search	09/27/2023	ck
Inventor Name Search (Double patenting)	09/27/2023	ck
updated search	05/20/2024	ck
updated search	09/20/2024	ck

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/113,545	KABUTO et al.
	Examiner	Art Unit
	CHRISTINE A KURIEN	2421

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	(H04N5/44 or H04N21/2368 or H04N21/4112 or H04N21/43076 or H04N21/4341 or H04N21/43615 or H04N21/4363 or H04N21/44231 or H04N5/76). cpc.	05/20/2024	ck

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/113,545	KABUTO et al.
	Examiner	**Art Unit**
	CHRISTINE A KURIEN	2421

CPC							
Symbol						**Type**	**Version**
H04N	/	5	/	44		F	2013-01-01
H04N	/	21	/	2368		I	2013-01-01
H04N	/	21	/	4363		I	2013-01-01
H04N	/	21	/	43615		I	2013-01-01
H04N	/	21	/	4341		I	2013-01-01
H04N	/	21	/	44231		I	2013-01-01
H04N	/	21	/	4112		I	2020-08-01
H04N	/	21	/	43076		I	2020-08-01
H04N	/	5	/	76		A	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

Use images from artifact folder? (•) Yes ( ) No

/CHRISTINE A KURIEN/ Examiner, Art Unit 2421 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20
/NATHAN J FLYNN/ Supervisory Patent Examiner, Art Unit 2421 (Primary Examiner)	23 September 2024 (Date)	O.G. Print Claim(s): 1 O.G. Print Figure: Fig. 1

IPR2025-01310; Samsung
Ex. 1002 - Page 17

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/113,545	KABUTO et al.
	Examiner	**Art Unit**
	CHRISTINE A KURIEN	2421

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H04N5/44	/	5	/	44
H04N21/2368	/	21	/	2368
H04N21/4363	/	21	/	4363
H04N21/436	/	21	/	436
H04N21/434	/	21	/	434
H04N21/442	/	21	/	442
H04N21/41	/	21	/	41
H04N21/43	/	21	/	43
H04N5/76	/	5	/	76

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

Use images from artifact folder? (•) Yes ( ) No

/CHRISTINE A KURIEN/ Examiner, Art Unit 2421 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20
/NATHAN J FLYNN/ Supervisory Patent Examiner, Art Unit 2421 (Primary Examiner)	23 September 2024 (Date)	O.G. Print Claim(s): 1 O.G. Print Figure: Fig. 1

IPR2025-01310; Samsung
Ex. 1002 - Page 18

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/113,545	KABUTO et al.
	Examiner	**Art Unit**
	CHRISTINE A KURIEN	2421

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10	5	19	14	28								
	2		11	6	20	15	29								
	3		12	7	21	16	30								
	4		13	8	22	17	31								
	5		14	9	23	18	32								
	6	1	15	10	24	19	33								
	7	2	16	11	25	20	34								
	8	3	17	12	26										
	9	4	18	13	27										

Use images from artifact folder? ◉ Yes ○ No

/CHRISTINE A KURIEN/ Examiner, Art Unit 2421 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20
/NATHAN J FLYNN/ Supervisory Patent Examiner, Art Unit 2421 (Primary Examiner)	23 September 2024 (Date)	O.G. Print Claim(s): 1 O.G. Print Figure: Fig. 1

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18113545
Filing Date	2023-02-23
First Named Inventor	Nobuaki KABUTO
Art Unit	2421
Examiner Name	CHRISTEN A KURIEN
Attorney Docket Number	093265-0106

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/C.A.K/	1	7162499	B2	2007-01-09	Lees et al.	
/C.A.K/	2	6536041	B1	2003-03-18	Knudson et al.	
/C.A.K/	3	7028057	B1	2006-04-11	Vasudevan et al.	
/C.A.K/	4	6996837	B1	2006-02-07	Miura et al.	
/C.A.K/	5	7151575	B1	2006-12-19	Landry et al.	

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/C.A.K/	1	20050144651	A1	2005-06-30	Prus et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.K/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18113545
	Filing Date	2023-02-23
	First Named Inventor	Nobuaki KABUTO
	Art Unit	2421
	Examiner Name	CHRISTEN A KURIEN
	Attorney Docket Number	093265-0106

/C.A.K/	2	20020023270	A1	2002-02-21	Thomas et al.		
/C.A.K/	3	20020085023	A1	2002-07-04	Zustak et al.		
/C.A.K/	4	20040003403	A1	2004-01-01	Marsh		
/C.A.K/	5	20040187151	A1	2004-09-23	Dunstan		
/C.A.K/	6	20050210501	A1	2005-09-22	Zigmond et al.		
/C.A.K/	7	20030093792	A1	2003-05-15	Labeeb et al.		
/C.A.K/	8	20070008302	A1	2007-01-11	Uchida et al.		

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18113545
	Filing Date	2023-02-23
	First Named Inventor	Nobuaki KABUTO
	Art Unit	2421
	Examiner Name	CHRISTEN A KURIEN
	Attorney Docket Number	093265-0106

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
/C.A.K/	1	Notice of Allowance issued in U.S. Application No. 12/783,329, dated November 22, 2022	☐
/C.A.K/	2	Final Office Action issued in U.S. Application No. 12/783,329, dated November 16, 2020	☐
/C.A.K/	3	Non-Final Office Action issued in U.S. Application No. 12/783,329, dated June 2, 2020	☐
/C.A.K/	4	Non-Final Office Action issued in U.S. Application No. 12/783,329, dated September 17, 2019	☐
/C.A.K/	5	Final Office Action issued in U.S. Application No. 12/783,329, dated January 2, 2019	☐
/C.A.K/	6	Non-Final Office Action issued in U.S. Application No. 12/783,329, dated May 2, 2018	☐
/C.A.K/	7	Final Office Action issued in U.S. Application No. 12/783,329, dated November 30, 2015	☐
/C.A.K/	8	Final Office Action issued in U.S. Application No. 12/783,329, dated March 5, 2015	☐
/C.A.K/	9	Non-Final Office Action issued in U.S. Application No. 12/783,329, dated June 25, 2014	☐
/C.A.K/	10	Final Office Action issued in U.S. Application No. 12/783,329, dated June 10, 2013	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.K/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18113545
	Filing Date	2023-02-23
	First Named Inventor	Nobuaki KABUTO
	Art Unit	2421
	Examiner Name	CHRISTEN A KURIEN
	Attorney Docket Number	093265-0106

/C.A.K/	11	Non-Final Office Action issued in U.S. Application No. 12/783,329, dated June 28, 2012	☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/CHRISTINE A KURIEN/	Date Considered	09/20/2024

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.K/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18113545
	Filing Date	2023-02-23
	First Named Inventor	Nobuaki KABUTO
	Art Unit	2421
	Examiner Name	CHRISTEN A KURIEN
	Attorney Docket Number	093265-0106

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Tomoki Tanida/	Date (YYYY-MM-DD)	2024-09-09
Name/Print	Tomoki Tanida	Registration Number	60,453

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.K/

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.K/

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/06 11:14 AM
L2	56913	"s21"	(USPAT)	OR	OFF	OFF	2015/11/11 09:00 AM
L3	1444	L2 and crc	(USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM
L4	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM
L5	6	L4	(USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM
L6	1	L4 and crc	(USPAT)	OR	OFF	OFF	2015/11/11 09:06 AM
L7	3	L4 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 09:12 AM
L8	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:44 PM
L9	1	"12783329" and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:44 PM
L10	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:53 PM

		"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.					
L11	5	L10 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:53 PM
L12	13	L10 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:37 PM
L13	1	"12783329" and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:40 PM
L14	6	L10 and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:42 PM
L15	8	L10 and identification	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:45 PM
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L17	1	L16 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/04 04:30 PM
L18	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/07 10:49 AM
L19	0	L18 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/07 11:27 AM
L20	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 12:50 PM
L21	4	L20 and compar$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 01:02 PM
L22	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:20 PM
L23	0	L22 and attach$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:20 PM
L24	3	L22 and request	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:23 PM
L25	2	L22 and forward	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:32 PM

L26	1	L22 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:47 PM
L27	0	L22 and messag	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:59 PM
L28	1	L22 and message	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:59 PM
L29	1	L28 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:17 PM
L30	0	L28 AND ((g06f17/30575).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:18 PM
L31	2	L22 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:19 PM
L32	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"20060129370"|"7151575"|"20040054910"|"20060095638"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"7162499"|"20030093792"|"20070008302"|"20080046950"|"20060095638"|"20020023270"|"20020085023").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:31 PM
L33	20	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:43 AM

		US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.					
L34	12	L33 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:43 AM
L35	4	L33 and wireless near5 receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:44 AM
L36	2	"9,961,400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 01:51 PM
L37	2	"9961400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 01:51 PM
L38	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 05:09 PM
L39	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/09 04:12 PM
L40	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/09 04:52 PM
L41	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/22 10:03 AM
L42	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:27 PM

		US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.					
L43	11	L42 and messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:27 PM
L44	6477	messag$3 same (history version) same number same "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:40 PM
L45	3287	messag$3 same (history version) same number same video	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:44 PM
L46	483	messag$3 same (history version) same number same video and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:44 PM
L47	89	messag$3 same (history version) same number same video same (upgrade update) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:47 PM
L48	7	"no" same (upgrade update) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:07 PM
L49	7	"no" same (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:08 PM
L50	0	"no" adj (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:09 PM
L51	0	"no" adj (upgrad$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25

		updat$3 change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.					08:09 PM
L52	1447	(message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/26 02:19 PM
L53	205	"no" same (message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/26 02:21 PM
L54	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:21 PM
L55	1364	L52 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:21 PM
L56	20	L54 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:22 PM
L57	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 01:46 PM
L58	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"2008032053	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		9"|"20080191582"|"200 80320539"|"7353158"|" 20030093792"|"200700 08302"|"20080046950"| "20060095638").PN.					
L59	81850	"s21"	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L60	2034	L59 and crc	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L61	21	("20020023270"|"20040 003403"|"20040187151 "|"6996837"|"6536041"|" 20070230909"|"200601 29370"|"20070222779"| "7028057"|"7162499"|"7 151575"|"20040054910 "|"20020085023"|"2005 0210501"|"2008032053 9"|"20080191582"|"200 80320539"|"7353158"|" 20030093792"|"200700 08302"|"20080046950"| "20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L62	6	L61	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L63	1	L61 and crc	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L64	3	L61 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L65	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L66	1	"12783329" and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L67	21	("20020023270"|"20040 003403"|"20040187151 "|"6996837"|"6536041"|" 20070230909"|"200601 29370"|"20070222779"| "7028057"|"7162499"|"7 151575"|"20040054910 "|"20020085023"|"2005 0210501"|"2008032053 9"|"20080191582"|"200 80320539"|"7353158"|" 20030093792"|"200700 08302"|"20080046950"| "20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L68	5	L67 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L69	13	L67 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L70	1	"12783329" and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

L71	6	L67 and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L72	8	L67 and identification	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L73	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L74	1	L73 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L75	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L76	0	L75 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L77	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L78	4	L77 and compar$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L79	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L80	0	L79 and attach$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L81	3	L79 and request	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L82	2	L79 and forward	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L83	1	L79 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L84	0	L79 and messag	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L85	1	L79 and message	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L86	1	L85 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)					
L87	0	L85 AND ((g06f17/30575).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L88	2	L79 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L89	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"20060129370"|"7151575"|"20040054910"|"20060095638"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"7162499"|"20030093792"|"20070008302"|"20080046950"|"20060095638"|"20020023270"|"20020085023").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L90	20	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		6536041-$).did.					
L91	12	L90 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L92	4	L90 and wireless near5 receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L93	4	"9,961,400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L94	4	"9961400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L95	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L96	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L97	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L98	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L99	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		6996837-$ or US-6536041-$).did.					
L100	11	L99 and messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L101	6635	messag$3 same (history version) same number same "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L102	3426	messag$3 same (history version) same number same video	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L103	506	messag$3 same (history version) same number same video and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L104	93	messag$3 same (history version) same number same video same (upgrade update) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L105	7	"no" same (upgrade update) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L106	7	"no" same (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L107	0	"no" adj (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L108	0	"no" adj (upgrad$3 updat$3 change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L109	1471	(message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L110	212	"no" same (message	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28

		notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)					05:53 PM
L111	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L112	1386	L109 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L113	20	L111 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L114	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L115	3	(US-20060095638-$ or US-20050144651-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:13 PM
L116	1	L115 and transceiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:13 PM
L117	1	L115 and history	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:28 PM
L118	2	L115 and version	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:49 PM
L119	4172	edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/25 07:19 PM
L120	2	edid same history same number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/25 07:20 PM
L121	637	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3 ("Yuya"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/05/25 07:29 PM
L122	637	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/05/26 11:14 AM

		("Yuya"))).INV.					
L123	10	L122 and history	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/26 11:14 AM
L124	1	L122 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/26 11:16 AM
L125	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 05:33 PM
L126	0	"12783329" and transceiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 05:34 PM
L127	3	(US-20060095638-$ or US-20050144651-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 06:54 PM
L128	1	L127 and receiver same wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 06:55 PM
L129	30115	(H04N5/44 or H04N21/4104 or H04N21/2368 or H04N21/4363 or H04N21/43615 or H04N21/4341 or H04N21/4307 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 06:58 PM
L130	2806	L129 and (messag$3 indicator) same receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 06:59 PM
L131	1	L129 and (messag$3 indicator) same receiver same "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:01 PM
L132	40	L129 and (messag$3 indicator) same receiver same (version history) adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:02 PM
L133	1	"20110004911"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:21 PM
L134	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:26 PM

		6996837-$ or US-6536041-$).did.					
L135	11	L134 and message$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:26 PM
L136	1419	"no change" near10 messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:28 PM
L137	10	L136 and L129	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:29 PM
L138	8	"no change" same EDID	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:39 PM
L139	2	"no change" same EDID same status	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:51 PM
L140	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 09:21 PM
L141	1	"12783329" and "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 09:32 PM
L142	160385	(H04N5/44 or H04N21/2368 or H04N21/4112 or H04N21/43076 or H04N21/4341 or H04N21/43615 or H04N21/4363 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/01 10:08 AM
L143	0	L142 AND L139	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/01 10:08 AM
L144	0	L142 AND L136	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2022/11/01 10:09 AM

			HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L145	22	("20080046950"|"20080191582"|"7353158"|"20020085023"|"20030093792"|"20060095638"|"20060129370"|"20070008302"|"20080320539"|"6996837"|"7151575"|"20070230909"|"20080320539"|"20020023270"|"20020085023"|"20060095638"|"20060129370"|"7162499"|"20060095638"|"20060129370"|"20070222779"|"20080320539"|"20020023270"|"20040003403"|"20040187151"|"20050210501"|"6536041"|"7028057"|"7162499"|"20040054910"|"20050144651"|"20060095638"|"7162499"|"20050144651"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/27 03:47 PM
L145	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/06 11:14 AM
L146	21	((US-20080320539-A1 OR US-20080046950-A1 OR US-20080191582-A1 OR US-20070230909-A1 OR US-20070222779-A1 OR US-20070008302-A1 OR US-20060129370-A1 OR US-20060095638-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO,	OR	ON	ON	2023/09/28 02:08 AM

		A1 OR US-20050144651-A1 OR US-20050210501-A1 OR US-20040187151-A1 OR US-20040054910-A1 OR US-20040003403-A1 OR US-20030093792-A1 OR US-20020085023-A1 OR US-20020023270-A1).did. AND PGPB.dbnm.) OR ((US-7162499-B2 OR US-7151575-B1 OR US-6996837-B1 OR US-7028057-B1 OR US-6536041-B1).did. AND USPT.dbnm.)	NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L146	56913	"s21"	(USPAT)	OR	OFF	OFF	2015/11/11 09:00 AM
L147	0	L146 AND parameter SAME status SAME messag$3	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/28 02:08 AM
L147	1444	L146 and crc	(USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM
L148	1	L146 AND capability ADJ information	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/28 02:09 AM
L148	21	("20020023270"|"20040	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11

		003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.					09:05 AM
L149	2	L146 AND parameter SAME predetermined	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/28 02:10 AM
L149	6	L148	(USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM
L150	5	L146 AND edid	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/28 02:10 AM
L150	1	L148 and crc	(USPAT)	OR	OFF	OFF	2015/11/11 09:06 AM
L151	0	(messag$3 indicator) SAME receiver SAME "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/09/28 02:16 AM
L151	3	L148 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 09:12 AM
L152	4	"20080320539"	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/28

							08:43 AM
L152	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:44 PM
L153	4	"20070222779"	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/28 08:43 AM
L153	1	"12783329" and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:44 PM
L154	3	"20070230909"	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/28 08:44 AM
L154	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:53 PM
L155	4	"20080320539"	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/28 08:44 AM
L155	5	L154 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:53 PM
L156	13	L154 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:37 PM
L157	1	"12783329" and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:40 PM
L158	6	L154 and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:42 PM
L159	8	L154 and identification	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:45 PM
L160	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/04 04:27 PM
L161	1	L160 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/04 04:30 PM
L162	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/07 10:49 AM
L163	0	L162 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/07 11:27 AM
L164	5	(US-20060129370-$ or	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26

		US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.					12:50 PM
L165	4	L164 and compar$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 01:02 PM
L166	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:20 PM
L167	0	L166 and attach$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:20 PM
L168	3	L166 and request	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:23 PM
L169	2	L166 and forward	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:32 PM
L170	1	L166 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:47 PM
L171	0	L166 and messag	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:59 PM
L172	1	L166 and message	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:59 PM
L173	1	L172 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:17 PM
L174	0	L172 AND ((g06f17/30575).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:18 PM
L175	2	L166 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:19 PM
L176	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:31 PM

		20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"20060129370"|"7151575"|"20040054910"|"20060095638"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"7162499"|"20030093792"|"20070008302"|"20080046950"|"20060095638"|"20020023270"|"20020085023").PN.					
L177	20	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:43 AM
L178	12	L177 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:43 AM
L179	4	L177 and wireless near5 receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:44 AM
L180	2	"9,961,400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 01:51 PM
L181	2	"9961400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 01:51 PM
L182	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 05:09 PM
L183	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/09 04:12 PM
L184	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/09 04:52 PM
L185	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/22 10:03 AM

		US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.					
L186	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:27 PM
L187	11	L186 and messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:27 PM
L188	6477	messag$3 same (history version) same number same "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:40 PM
L189	3287	messag$3 same (history version) same number same video	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:44 PM
L190	483	messag$3 same (history version) same number same video and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:44 PM
L191	89	messag$3 same (history version) same number same video same (upgrade update) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:47 PM
L192	7	"no" same (upgrade update) same message	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:07 PM

		same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.					
L193	7	"no" same (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:08 PM
L194	0	"no" adj (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:09 PM
L195	0	"no" adj (upgrad$3 updat$3 change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:09 PM
L196	1447	(message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/26 02:19 PM
L197	205	"no" same (message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/26 02:21 PM
L198	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:21 PM

		$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.					
L199	1364	L196 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:21 PM
L200	20	L198 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:22 PM
L201	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 01:46 PM
L202	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L203	81850	"s21"	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L204	2034	L203 and crc	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L205	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L206	6	L205	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L207	1	L205 and crc	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L208	3	L205 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L209	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L210	1	"12783329" and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L211	21	("20020023270"|"20040	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28

		003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.					05:53 PM
L212	5	L211 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L213	13	L211 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L214	1	"12783329" and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L215	6	L211 and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L216	8	L211 and identification	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L217	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L218	1	L217 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L219	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L220	0	L219 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L221	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L222	4	L221 and compar$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L223	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

L224	0	L223 and attach$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L225	3	L223 and request	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L226	2	L223 and forward	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L227	1	L223 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L228	0	L223 and messag	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L229	1	L223 and message	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L230	1	L229 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L231	0	L229 AND ((g06f17/30575).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L232	2	L223 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L233	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"20060129370"|"7151575"|"20040054910"|"20060095638"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"7162499"|"20030093792"|"20070008302"|"20080046950"|"20060095638"|"20020023270"|"20020085023").P	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		N.					
L234	20	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L235	12	L234 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L236	4	L234 and wireless near5 receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L237	4	"9,961,400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L238	4	"9961400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L239	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L240	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L241	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L242	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		6536041-$).did.					
L243	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L244	11	L243 and messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L245	6635	messag$3 same (history version) same number same "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L246	3426	messag$3 same (history version) same number same video	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L247	506	messag$3 same (history version) same number same video and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L248	93	messag$3 same (history version) same number same video same (upgrade update) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L249	7	"no" same (upgrade update) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L250	7	"no" same (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L251	0	"no" adj (upgrade update change) same	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.					
L252	0	"no" adj (upgrad$3 updat$3 change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L253	1471	(message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L254	212	"no" same (message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L255	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L256	1386	L253 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L257	20	L255 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L258	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L259	3	(US-20060095638-$ or US-20050144651-$).did. or (US-7162499-	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:13 PM

		$).did.					
L260	1	L259 and transceiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:13 PM
L261	1	L259 and history	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:28 PM
L262	2	L259 and version	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:49 PM
L263	4172	edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/25 07:19 PM
L264	2	edid same history same number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/25 07:20 PM
L265	637	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3 ("Yuya"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/05/25 07:29 PM
L266	637	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3 ("Yuya"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/05/26 11:14 AM
L267	10	L266 and history	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/26 11:14 AM
L268	1	L266 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/26 11:16 AM
L269	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 05:33 PM
L270	0	"12783329" and transceiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 05:34 PM
L271	3	(US-20060095638-$ or US-20050144651-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 06:54 PM
L272	1	L271 and receiver same wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 06:55 PM
L273	30115	(H04N5/44 or H04N21/4104 or H04N21/2368 or H04N21/4363 or H04N21/43615 or H04N21/4341 or H04N21/4307 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 06:58 PM
L274	2806	L273 and (messag$3 indicator) same receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 06:59 PM
L275	1	L273 and (messag$3 indicator) same receiver same "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:01 PM
L276	40	L273 and (messag$3 indicator) same receiver same (version history) adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:02 PM
L277	1	"20110004911"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15

							07:21 PM
L278	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:26 PM
L279	11	L278 and message$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:26 PM
L280	1419	"no change" near10 messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:28 PM
L281	10	L280 and L273	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:29 PM
L282	8	"no change" same EDID	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:39 PM
L283	2	"no change" same EDID same status	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:51 PM
L284	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 09:21 PM
L285	1	"12783329" and "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 09:32 PM
L286	160385	(H04N5/44 or H04N21/2368 or H04N21/4112 or H04N21/43076 or H04N21/4341 or H04N21/43615 or H04N21/4363 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/01 10:08 AM
L287	0	L286 AND L283	(US-PGPUB; USPAT; USOCR; FIT (AP, AT,	OR	ON	ON	2022/11/01 10:08 AM

			AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L288	0	L286 AND L280	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/01 10:09 AM
L289	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/06 11:14 AM
L290	56913	"s21"	(USPAT)	OR	OFF	OFF	2015/11/11 09:00 AM
L291	1444	L290 and crc	(USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM
L292	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"2005	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM

		0210501"|"2008032053 9"|"20080191582"|"200 80320539"|"7353158"|" 20030093792"|"200700 08302"|"20080046950"| "20060095638").PN.					
L293	6	L292	(USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM
L294	1	L292 and crc	(USPAT)	OR	OFF	OFF	2015/11/11 09:06 AM
L295	3	L292 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 09:12 AM
L296	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:44 PM
L297	1	"12783329" and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:44 PM
L298	21	("20020023270"|"20040 003403"|"20040187151 "|"6996837"|"6536041"|" 20070230909"|"200601 29370"|"20070222779"| "7028057"|"7162499"|"7 151575"|"20040054910 "|"20020085023"|"2005 0210501"|"2008032053 9"|"20080191582"|"200 80320539"|"7353158"|" 20030093792"|"200700 08302"|"20080046950"| "20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:53 PM
L299	5	L298 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:53 PM
L300	13	L298 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:37 PM
L301	1	"12783329" and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:40 PM
L302	6	L298 and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:42 PM
L303	8	L298 and identification	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:45 PM
L304	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270- $).did. or (US-7162499- $).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/04 04:27 PM
L305	1	L304 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/04 04:30 PM
L306	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270- $).did. or (US-7162499-	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/07 10:49 AM

		$).did.					
L307	0	L306 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/07 11:27 AM
L308	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 12:50 PM
L309	4	L308 and compar$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 01:02 PM
L310	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:20 PM
L311	0	L310 and attach$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:20 PM
L312	3	L310 and request	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:23 PM
L313	2	L310 and forward	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:32 PM
L314	1	L310 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:47 PM
L315	0	L310 and messag	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:59 PM
L316	1	L310 and message	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:59 PM
L317	1	L316 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:17 PM
L318	0	L316 AND ((g06f17/30575).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:18 PM
L319	2	L310 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:19 PM

		H04N7/163 OR H04N7/165).CPC.)					
L320	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"20060129370"|"7151575"|"20040054910"|"20060095638"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"7162499"|"20030093792"|"20070008302"|"20080046950"|"20060095638"|"20020023270"|"20020085023").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:31 PM
L321	20	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:43 AM
L322	12	L321 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:43 AM
L323	4	L321 and wireless near5 receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:44 AM
L324	2	"9,961,400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 01:51 PM
L325	2	"9961400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 01:51 PM
L326	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 05:09 PM
L327	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/09 04:12 PM
L328	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/09 04:52 PM

L329	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/22 10:03 AM
L330	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:27 PM
L331	11	L330 and messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:27 PM
L332	6477	messag$3 same (history version) same number same "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:40 PM
L333	3287	messag$3 same (history version) same number same video	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:44 PM
L334	483	messag$3 same (history version) same number same video and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:44 PM
L335	89	messag$3 same (history version) same	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:47 PM

		number same video same (upgrade update) and h04n21/$.cpc.					
L336	7	"no" same (upgrade update) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:07 PM
L337	7	"no" same (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:08 PM
L338	0	"no" adj (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:09 PM
L339	0	"no" adj (upgrad$3 updat$3 change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:09 PM
L340	1447	(message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/26 02:19 PM
L341	205	"no" same (message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/26 02:21 PM
L342	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:21 PM

		US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.					
L343	1364	L340 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:21 PM
L344	20	L342 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:22 PM
L345	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 01:46 PM
L346	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L347	81850	"s21"	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L348	2034	L347 and crc	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L349	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L350	6	L349	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L351	1	L349 and crc	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L352	3	L349 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

L353	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L354	1	"12783329" and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L355	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L356	5	L355 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L357	13	L355 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L358	1	"12783329" and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L359	6	L355 and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L360	8	L355 and identification	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L361	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L362	1	L361 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L363	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L364	0	L363 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L365	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L366	4	L365 and compar$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L367	5	(US-20060129370-$ or	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28

		US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.					05:53 PM
L368	0	L367 and attach$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L369	3	L367 and request	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L370	2	L367 and forward	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L371	1	L367 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L372	0	L367 and messag	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L373	1	L367 and message	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L374	1	L373 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L375	0	L373 AND ((g06f17/30575).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L376	2	L367 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L377	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"20060129370"|"7151575"|"20040054910"|"20060095638"|"20020085023"|"20050210501"|"20080320539"|"200801915	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		82"|"20080320539"|"73 53158"|"7162499"|"200 30093792"|"200700083 02"|"20080046950"|"20 060095638"|"20020023 270"|"20020085023").P N.					
L378	20	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L379	12	L378 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L380	4	L378 and wireless near5 receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L381	4	"9,961,400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L382	4	"9961400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L383	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L384	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L385	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L386	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.					
L387	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L388	11	L387 and messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L389	6635	messag$3 same (history version) same number same "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L390	3426	messag$3 same (history version) same number same video	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L391	506	messag$3 same (history version) same number same video and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L392	93	messag$3 same (history version) same number same video same (upgrade update) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L393	7	"no" same (upgrade update) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L394	7	"no" same (upgrade update change) same message same (version	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.					
L395	0	"no" adj (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L396	0	"no" adj (upgrad$3 updat$3 change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L397	1471	(message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L398	212	"no" same (message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L399	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L400	1386	L397 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L401	20	L399 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28

							05:53 PM
L402	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L403	3	(US-20060095638-$ or US-20050144651-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:13 PM
L404	1	L403 and transceiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:13 PM
L405	1	L403 and history	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:28 PM
L406	2	L403 and version	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:49 PM
L407	4172	edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/25 07:19 PM
L408	2	edid same history same number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/25 07:20 PM
L409	637	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3 ("Yuya"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/05/25 07:29 PM
L410	637	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3 ("Yuya"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/05/26 11:14 AM
L411	10	L410 and history	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/26 11:14 AM
L412	1	L410 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/26 11:16 AM
L413	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 05:33 PM
L414	0	"12783329" and transceiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 05:34 PM
L415	3	(US-20060095638-$ or US-20050144651-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 06:54 PM
L416	1	L415 and receiver same wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 06:55 PM
L417	30115	(H04N5/44 or H04N21/4104 or H04N21/2368 or H04N21/4363 or H04N21/43615 or H04N21/4341 or H04N21/4307 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 06:58 PM
L418	2806	L417 and (messag$3 indicator) same receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 06:59 PM
L419	1	L417 and (messag$3 indicator) same receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:01 PM

		same "no change"					
L420	40	L417 and (messag$3 indicator) same receiver same (version history) adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:02 PM
L421	1	"20110004911"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:21 PM
L422	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:26 PM
L423	11	L422 and message$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:26 PM
L424	1419	"no change" near10 messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:28 PM
L425	10	L424 and L417	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:29 PM
L426	8	"no change" same EDID	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:39 PM
L427	2	"no change" same EDID same status	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:51 PM
L428	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 09:21 PM
L429	1	"12783329" and "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 09:32 PM
L430	160385	(H04N5/44 or H04N21/2368 or H04N21/4112 or H04N21/43076 or H04N21/4341 or H04N21/43615 or H04N21/4363 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK,	OR	ON	ON	2022/11/01 10:08 AM

			TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L431	0	L430 AND L427	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/01 10:08 AM
L432	0	L430 AND L424	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/01 10:09 AM
L433	170577	(H04N5/44 or H04N21/2368 or H04N21/4112 or H04N21/43076 or H04N21/4341 or H04N21/43615 or H04N21/4363 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/20 12:44 PM
L434	0	first SAME number SAME transmitted SAME first SAME request SAME	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/20 01:06 PM

		message SAME display SAME apparatus SAME second SAME number SAME transmitted SAME second SAME request SAME message SAME display SAME apparatus SAME generated SAME increasing SAME first SAME number SAME second SAME number SAME arbitrary SAME number					
L435	698	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3 ("Yuya"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/05/20 01:08 PM
L436	68	L433 AND L435	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/05/20 01:09 PM
L437	0	L321 AND wireless near5 receiver AND N2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/20 01:10 PM
L449	13	(US-18113545-$ | US-20020023270-$ | US-20020085023-$ | US-20030093792-$ | US-20040003403-$ | US-20040187151-$ | US-20050144651-$ | US-20050210501-$ | US-20070008302-$ | US-6536041-$ | US-6996837-$ | US-7028057-$ | US-7151575-$ | US-7162499-$).DID.	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/20 11:32 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	0	L145 AND I146	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/20 01:06 PM
N2	56	L145 AND L147	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/20 01:09 PM
N3	0	L33 AND wireless near5 receiver AND N2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/20 01:10 PM

Bibliographic Data

Application No: 18/113,545

Foreign Priority claimed: (●) Yes ( ) No

35 USC 119 (a-d) conditions met: [✓] Yes [ ] No [ ] Met After Allowance

Verified and Acknowledged: /CHRISTINE A KURIEN/ Examiner's Signature [ ] Initials

Title: VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
02/23/2023	725	2421	093265-0106
RULE			

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CONTINUING DATA

This application is a CON of 12783329 05/19/2010 PAT 11611718

FOREIGN APPLICATIONS

JAPAN JP2009-158361 07/03/2009

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03/16/2023

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18113545
Filing Date	2023-02-23
First Named Inventor	Nobuaki KABUTO
Art Unit	2421
Examiner Name	CHRISTEN A KURIEN
Attorney Docket Number	093265-0106

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7162499	B2	2007-01-09	Lees et al.	
	2	6536041	B1	2003-03-18	Knudson et al.	
	3	7028057	B1	2006-04-11	Vasudevan et al.	
	4	6996837	B1	2006-02-07	Miura et al.	
	5	7151575	B1	2006-12-19	Landry et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20050144651	A1	2005-06-30	Prus et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18113545
	Filing Date	2023-02-23
	First Named Inventor	Nobuaki KABUTO
	Art Unit	2421
	Examiner Name	CHRISTEN A KURIEN
	Attorney Docket Number	093265-0106

	2	20020023270	A1	2002-02-21	Thomas et al.	
	3	20020085023	A1	2002-07-04	Zustak et al.	
	4	20040003403	A1	2004-01-01	Marsh	
	5	20040187151	A1	2004-09-23	Dunstan	
	6	20050210501	A1	2005-09-22	Zigmond et al.	
	7	20030093792	A1	2003-05-15	Labeeb et al.	
	8	20070008302	A1	2007-01-11	Uchida et al.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18113545
	Filing Date	2023-02-23
	First Named Inventor	Nobuaki KABUTO
	Art Unit	2421
	Examiner Name	CHRISTEN A KURIEN
	Attorney Docket Number	093265-0106

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Notice of Allowance issued in U.S. Application No. 12/783,329, dated November 22, 2022	☐
	2	Final Office Action issued in U.S. Application No. 12/783,329, dated November 16, 2020	☐
	3	Non-Final Office Action issued in U.S. Application No. 12/783,329, dated June 2, 2020	☐
	4	Non-Final Office Action issued in U.S. Application No. 12/783,329, dated September 17, 2019	☐
	5	Final Office Action issued in U.S. Application No. 12/783,329, dated January 2, 2019	☐
	6	Non-Final Office Action issued in U.S. Application No. 12/783,329, dated May 2, 2018	☐
	7	Final Office Action issued in U.S. Application No. 12/783,329, dated November 30, 2015	☐
	8	Final Office Action issued in U.S. Application No. 12/783,329, dated March 5, 2015	☐
	9	Non-Final Office Action issued in U.S. Application No. 12/783,329, dated June 25, 2014	☐
	10	Final Office Action issued in U.S. Application No. 12/783,329, dated June 10, 2013	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18113545
	Filing Date	2023-02-23
	First Named Inventor	Nobuaki KABUTO
	Art Unit	2421
	Examiner Name	CHRISTEN A KURIEN
	Attorney Docket Number	093265-0106

	11	Non-Final Office Action issued in U.S. Application No. 12/783,329, dated June 28, 2012	☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18113545
Filing Date	2023-02-23
First Named Inventor	Nobuaki KABUTO
Art Unit	2421
Examiner Name	CHRISTEN A KURIEN
Attorney Docket Number	093265-0106

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Tomoki Tanida/	Date (YYYY-MM-DD)	2024-09-09
Name/Print	Tomoki Tanida	Registration Number	60,453

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	18113545	Filing Date	2023-02-23	Docket Number (if applicable)	093265-0106	Art Unit	2421
First Named Inventor	Nobuaki KABUTO			Examiner Name	CHRISTEN A KURIEN		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☒ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

☐ Other _____

☒ Enclosed

☐ Amendment/Reply

☒ Information Disclosure Statement (IDS)

☐ Affidavit(s)/ Declaration(s)

☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 505992

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Tomoki Tanida/	Date (YYYY-MM-DD)	2024-09-09
Name	Tomoki Tanida	Registration Number	60453

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/113,545	**09/09/2024 01:22:31 PM Z ET**	**093265-0106**

Title of Invention

VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2508	FILED BY	Victor Rosette
PATENT CENTER #	67096206	FILING DATE	02/23/2023
CUSTOMER #	196212	FIRST NAMED INVENTOR	Nobuaki KABUTO
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Tomoki Tanida

Documents

TOTAL DOCUMENTS: 13

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
093265-0106_NPL_2.pdf	9	Non Patent Literature	298 KB
093265-0106_NPL_3.pdf	8	Non Patent Literature	279 KB
093265-0106_NPL_4.pdf	7	Non Patent Literature	280 KB
093265-0106_NPL_5.pdf	9	Non Patent Literature	325 KB
093265-0106 RCE.pdf	3	Request for Continued Examination (RCE)	681 KB
093265-0106_NPL_6.pdf	11	Non Patent Literature	390 KB
093265-0106 IDS.pdf	6	Information Disclosure Statement (IDS) Form (SB08)	1011 KB
093265-0106_NPL_7.pdf	13	Non Patent Literature	494 KB
093265-0106_NPL_8.pdf	13	Non Patent Literature	471 KB

093265-0106_NPL_9.pdf	12	Non Patent Literature	425 KB
093265-0106_NPL_10.pdf	12	Non Patent Literature	420 KB
093265-0106_NPL_11.pdf	11	Non Patent Literature	388 KB
093265-0106_NPL_1.pdf	7	Non Patent Literature	593 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/113,545	**09/09/2024 01:22:31 PM Z ET**	**093265-0106**

Title of Invention

VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2508	FILED BY	Victor Rosette
PATENT CENTER #	67096206	AUTHORIZED BY	Tomoki Tanida
CUSTOMER #	196212	FILING DATE	02/23/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Nobuaki KABUTO

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 1015	**E202499D23466100**	**Victor Rosette**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1801	REQUEST FOR CONTINUED EXAMINATION (RCE) - 1ST REQUEST (SEE 37 CFR 1.114)	1360.00	1	1360.00
			TOTAL AMOUNT:	**$1,360.00**

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C.

371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/113,545	02/23/2023	Nobuaki KABUTO	093265-0106	2508

196212 7590 06/20/2024

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ART UNIT	PAPER NUMBER
2421	

NOTIFICATION DATE	DELIVERY MODE
06/20/2024	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPTOmail@rimonlaw.com
eofficeaction@appcoll.com
karen.hagerman@rimonlaw.com

Corrected ***Notice of Allowability***	**Application No.** 18/113,545	**Applicant(s)** KABUTO et al.	
	Examiner CHRISTINE A KURIEN	**Art Unit** 2421	**AIA (FITF) Status** No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 06/12/2024.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 15-34 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some* c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/NATHAN J FLYNN/
Supervisory Patent Examiner, Art Unit 2421

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2023-02-23
First Named Inventor	Nobuaki KABUTO
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	093265-0106

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/C.A.K/	1	20070230909	A1	2007-10-04	Mukaide et al.	Corresponds to JP2007-267116
/C.A.K/	2	20080320539	A1	2008-12-25	Ohkita	Corresponds to JP2009-004877

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
/C.A.K/	1	2009-049787	JP	A	2009-03-05	Funai Electric Co	w/English abstract	☐
/C.A.K/	2	2000-194346	JP	A	2000-07-14	Nippon Denki Home Electronics	w/English abstract	☐

IPR2025-01310; Samsung Ex. 1002 - Page 89

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.K/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2023-02-23
	First Named Inventor	Nobuaki KABUTO
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	093265-0106

/C.A.K/	3	2007-267116	JP	A	2007-11-10	TOSHIBA CORP	Corresponds to US2007/0230909	☐
/C.A.K/	4	2009-004877	JP	A	2009-01-08	TOSHIBA CORP	Corresponds to US2008/0320539	☐

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
/C.A.K/	1	Japanese Office Action issued in Japanese Application No. 2009-158361 dated April 23, 2013 with Partial English Translation	☒

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/CHRISTINE A KURIEN/	Date Considered	06/13/2024

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.K/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2023-02-23
First Named Inventor	Nobuaki KABUTO
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	093265-0106

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Tomoki Tanida/	Date (YYYY-MM-DD)	2023-02-23
Name/Print	Tomoki Tanida	Registration Number	60,453

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.K/

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.K/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/113,545	02/23/2023	2421	2460	093265-0106	5	1

CONFIRMATION NO. 2508

REPLACEMENT FILING RECEIPT

196212
Rimon PC - MWE
8300 Greensboro Dr.
Suite 500
McLean, VA 22102

OC00000073843526

Date Mailed: 06/12/2024

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Nobuaki KABUTO, Kunitachi, JAPAN;
Yuya OGI, Yokohama, JAPAN;

Applicant(s)

MAXELL, LTD, Kyoto, JAPAN;

Power of Attorney: The patent practitioners associated with Customer Number 196212

Domestic Priority data as claimed by applicant

This application is a CON of 12/783,329 05/19/2010 PAT 11,611,718

Foreign Applications (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.)
JAPAN 2009-158361 07/03/2009 No Access Code Provided

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 03/16/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/113,545**

Projected Publication Date: 06/29/2023

Non-Publication Request: No

Early Publication Request: No

Title

VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS

Preliminary Class

725

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

IPR2025-01310; Samsung
Ex. 1002 - Page 95

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

196212 7590 06/07/2024

Rimon PC - MWE
8300 Greensboro Dr.
Suite 500
McLean, VA 22102

EXAMINER	
KURIEN, CHRISTEN A	
ART UNIT	PAPER NUMBER
2421	

DATE MAILED: 06/07/2024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/113,545	02/23/2023	Nobuaki KABUTO	093265-0106	2508

TITLE OF INVENTION: VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	09/09/2024

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

196212 7590 06/07/2024

Rimon PC - MWE
8300 Greensboro Dr.
Suite 500
McLean, VA 22102

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/113,545	02/23/2023	Nobuaki KABUTO	093265-0106	2508

TITLE OF INVENTION: VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	09/09/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
KURIEN, CHRISTEN A	2421	725-115000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via the USPTO patent electronic filing system ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

❑ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/113,545	02/23/2023	Nobuaki KABUTO	093265-0106	2508

196212 7590 06/07/2024

Rimon PC - MWE
8300 Greensboro Dr.
Suite 500
McLean, VA 22102

EXAMINER	
KURIEN, CHRISTEN A	
ART UNIT	PAPER NUMBER
2421	

DATE MAILED: 06/07/2024

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
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4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 18/113,545	Applicant(s) KABUTO et al.	
	Examiner CHRISTINE A KURIEN	Art Unit 2421	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 04/03/24.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 15-34 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☑ All b) ☐ Some* c) ☐ None of the:

   1. ☑ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/NATHAN J FLYNN/
Supervisory Patent Examiner, Art Unit 2421

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Allowable Subject Matter

1. Claims 15-34 are allowed.

2. The following is an examiner's statement of reasons for allowance: The Prior Art US Pub. 2006/0095638 ("Unger '5638") and further in view of US US Pat. 7,162,499 ("Lees") and Pub. 2006/0129370 ("Unger '9370") fails to disclose, teach, or suggest all of the limitations of the claimed invention. The Prior Art fails to sufficiently teach or suggest that A video transmitting apparatus comprising: wireless communication circuitry configured to communicate with a display apparatus, the wireless communication circuitry being configured to transmit, while the wireless communication is connected to the display apparatus after a new connection is established with the display apparatus, a first request message and a second request message to the display apparatus; audio/video signal generation circuitry configured to generate an audio/video signal stream; a memory; and control circuitry configured to: transmit a first request messages to the display apparatus together with a first number via the wireless communication circuitry, the first request message together with a first number;receive capability information relating to the display apparatus from the display apparatus via the wireless communication circuitry; store the received capability information relating to the display apparatus in the memory; determine at least one parameter relating to the audio/video signal stream based on the received capability information relating to the display apparatus;cause the audio/video signal generation circuitry to generate the audio/video signal stream based on the determined at least one parameter relating to the audio/video signal stream;transmit the generated audio/video signal stream to the display apparatus via the wireless communication circuitry;

and when a predetermined condition is met, transmit a second request message, to the display apparatus via the wireless communication circuitry, the second request message together with a second number[[,]] which is different from the first number, via the wireless communication circuitry, wherein one of the first number transmitted with the first request message to the display apparatus and the second number transmitted with the second request message to the display apparatus is generated by increasing the other of the first number and the second number by an arbitrary number. As such, the specific ordered combination of steps as required by the recited limitations are considered to be non-obvious over the Prior Art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTINE A KURIEN whose telephone number is (571)270-5694. The examiner can normally be reached on M-F; 7:30-4:30.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see https://ppair-my.uspto.gov/pair/PrivatePair. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHRISTINE A KURIEN/

Examiner, Art Unit 2421

/NATHAN J FLYNN/
Supervisory Patent Examiner, Art Unit 2421

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/113,545	KABUTO et al.
	Examiner	Art Unit
	CHRISTINE A KURIEN	2421

CPC - Searched*		
Symbol	Date	Examiner
(H04N5/44 or H04N21/2368 or H04N21/4112 or H04N21/43076 or H04N21/4341 or H04N21/43615 or H04N21/4363 or H04N21/44231 or H04N5/76).cpc.	09/27/2023	

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Search	09/27/2023	ck
Inventor Name Search (Double patenting)	09/27/2023	ck
updated search	05/20/2024	ck

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	(H04N5/44 or H04N21/2368 or H04N21/4112 or H04N21/43076 or H04N21/4341 or H04N21/43615 or H04N21/4363 or H04N21/44231 or H04N5/76).cpc.	05/20/2024	ck

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/113,545	KABUTO et al.
	Examiner	Art Unit
	CHRISTINE A KURIEN	2421

IPR2025-01310; Samsung
Ex. 1002 - Page 105

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/113,545	KABUTO et al.
	Examiner	**Art Unit**
	CHRISTINE A KURIEN	2421

CPC						
Symbol					**Type**	**Version**
H04N	/	5	/	44	F	2013-01-01
H04N	/	21	/	2368	I	2013-01-01
H04N	/	21	/	4363	I	2013-01-01
H04N	/	21	/	43615	I	2013-01-01
H04N	/	21	/	4341	I	2013-01-01
H04N	/	21	/	44231	I	2013-01-01
H04N	/	21	/	4112	I	2020-08-01
H04N	/	21	/	43076	I	2020-08-01
H04N	/	5	/	76	A	2013-01-01

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

/CHRISTINE A KURIEN/ Examiner, Art Unit 2421	20 May 2024	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/NATHAN J FLYNN/ Supervisory Patent Examiner, Art Unit 2421	29 May 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	Fig. 1

U.S. Patent and Trademark Office — Part of Paper No.: 20240520

IPR2025-01310; Samsung
Ex. 1002 - Page 106

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/113,545	KABUTO et al.
	Examiner	**Art Unit**
	CHRISTINE A KURIEN	2421

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H04N5/44	/	5	/	44
H04N21/2368	/	21	/	2368
H04N21/4363	/	21	/	4363
H04N21/436	/	21	/	436
H04N21/434	/	21	/	434
H04N21/442	/	21	/	442
H04N21/41	/	21	/	41
H04N21/43	/	21	/	43
H04N5/76	/	5	/	76

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

/CHRISTINE A KURIEN/ Examiner, Art Unit 2421 (Assistant Examiner)	20 May 2024 (Date)	**Total Claims Allowed:** 20	
/NATHAN J FLYNN/ Supervisory Patent Examiner, Art Unit 2421 (Primary Examiner)	29 May 2024 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure Fig. 1

U.S. Patent and Trademark Office

Part of Paper No.: 20240520

IPR2025-01310; Samsung
Ex. 1002 - Page 107

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/113,545	KABUTO et al.
	Examiner	**Art Unit**
	CHRISTINE A KURIEN	2421

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10	5	19	14	28								
	2		11	6	20	15	29								
	3		12	7	21	16	30								
	4		13	8	22	17	31								
	5		14	9	23	18	32								
	6	1	15	10	24	19	33								
	7	2	16	11	25	20	34								
	8	3	17	12	26										
	9	4	18	13	27										

/CHRISTINE A KURIEN/ Examiner, Art Unit 2421	20 May 2024	**Total Claims Allowed:**
(Assistant Examiner)	(Date)	20
/NATHAN J FLYNN/ Supervisory Patent Examiner, Art Unit 2421	29 May 2024	O.G. Print Claim(s) / O.G. Print Figure
(Primary Examiner)	(Date)	1 / Fig. 1

U.S. Patent and Trademark Office

Part of Paper No.: 20240520

IPR2025-01310; Samsung
Ex. 1002 - Page 108

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/113,545	KABUTO et al.
	Examiner	**Art Unit**
	CHRISTINE A KURIEN	2421

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	09/28/2023	05/20/2024							
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	2	-	-							
	3	-	-							
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	31	✓	=							
	32	✓	=							
	33	✓	=							
	34	✓	=							

Bibliographic Data

Application No: 18/113,545

Foreign Priority claimed: (●) Yes ( ) No

35 USC 119 (a-d) conditions met: [✓] Yes [ ] No [ ] Met After Allowance

Verified and Acknowledged: /CHRISTINE A KURIEN/ Examiner's Signature | Initials

Title: VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
02/23/2023	725	2421	093265-0106
RULE			

APPLICANTS

MAXELL, LTD, Kyoto, JAPAN

INVENTORS

Nobuaki KABUTO, Kunitachi, JAPAN

Yuya OGI,

CONTINUING DATA

This application is a CON of 12783329 05/19/2010 PAT 11611718

FOREIGN APPLICATIONS

JAPAN JP2009-158361 07/03/2009

IF REQUIRED, FOREIGN LICENSE GRANTED**

03/16/2023

STATE OR COUNTRY

JAPAN

ADDRESS

Rimon PC - MWE
8300 Greensboro Dr.
Suite 500
McLean, VA 22102
UNITED STATES

FILING FEE RECEIVED

$1,980

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/06 11:14 AM
L2	56913	"s21"	(USPAT)	OR	OFF	OFF	2015/11/11 09:00 AM
L3	1444	L2 and crc	(USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM
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L6	1	L4 and crc	(USPAT)	OR	OFF	OFF	2015/11/11 09:06 AM
L7	3	L4 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 09:12 AM
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L9	1	"12783329" and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:44 PM
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L12	13	L10 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:37 PM
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L15	8	L10 and identification	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:45 PM
L16	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/04 04:27 PM
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L18	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/07 10:49 AM
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L22	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:20 PM
L23	0	L22 and attach$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:20 PM
L24	3	L22 and request	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:23 PM
L25	2	L22 and forward	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:32 PM

L26	1	L22 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:47 PM
L27	0	L22 and messag	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:59 PM
L28	1	L22 and message	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:59 PM
L29	1	L28 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:17 PM
L30	0	L28 AND ((g06f17/30575).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:18 PM
L31	2	L22 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:19 PM
L32	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"20060129370"|"7151575"|"20040054910"|"20060095638"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"7162499"|"20030093792"|"20070008302"|"20080046950"|"20060095638"|"20020023270"|"20020085023").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:31 PM
L33	20	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:43 AM

		US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.					
L34	12	L33 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:43 AM
L35	4	L33 and wireless near5 receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:44 AM
L36	2	"9,961,400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 01:51 PM
L37	2	"9961400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 01:51 PM
L38	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 05:09 PM
L39	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/09 04:12 PM
L40	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/09 04:52 PM
L41	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/22 10:03 AM
L42	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:27 PM

		US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.					
L43	11	L42 and messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:27 PM
L44	6477	messag$3 same (history version) same number same "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:40 PM
L45	3287	messag$3 same (history version) same number same video	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:44 PM
L46	483	messag$3 same (history version) same number same video and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:44 PM
L47	89	messag$3 same (history version) same number same video same (upgrade update) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:47 PM
L48	7	"no" same (upgrade update) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:07 PM
L49	7	"no" same (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:08 PM
L50	0	"no" adj (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:09 PM
L51	0	"no" adj (upgrad$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25

		updat$3 change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.					08:09 PM
L52	1447	(message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/26 02:19 PM
L53	205	"no" same (message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/26 02:21 PM
L54	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:21 PM
L55	1364	L52 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:21 PM
L56	20	L54 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:22 PM
L57	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 01:46 PM
L58	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"2008032053	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		9"|"20080191582"|"200 80320539"|"7353158"|" 20030093792"|"200700 08302"|"20080046950"| "20060095638").PN.					
L59	81850	"s21"	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L60	2034	L59 and crc	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L61	21	("20020023270"|"20040 003403"|"20040187151 "|"6996837"|"6536041"|" 20070230909"|"200601 29370"|"20070222779"| "7028057"|"7162499"|"7 151575"|"20040054910 "|"20020085023"|"2005 0210501"|"2008032053 9"|"20080191582"|"200 80320539"|"7353158"|" 20030093792"|"200700 08302"|"20080046950"| "20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L62	6	L61	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L63	1	L61 and crc	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L64	3	L61 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L65	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L66	1	"12783329" and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L67	21	("20020023270"|"20040 003403"|"20040187151 "|"6996837"|"6536041"|" 20070230909"|"200601 29370"|"20070222779"| "7028057"|"7162499"|"7 151575"|"20040054910 "|"20020085023"|"2005 0210501"|"2008032053 9"|"20080191582"|"200 80320539"|"7353158"|" 20030093792"|"200700 08302"|"20080046950"| "20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L68	5	L67 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L69	13	L67 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L70	1	"12783329" and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

L71	6	L67 and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L72	8	L67 and identification	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L73	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L74	1	L73 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L75	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L76	0	L75 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L77	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L78	4	L77 and compar$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L79	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L80	0	L79 and attach$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L81	3	L79 and request	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L82	2	L79 and forward	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L83	1	L79 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L84	0	L79 and messag	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L85	1	L79 and message	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L86	1	L85 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)					
L87	0	L85 AND ((g06f17/30575).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L88	2	L79 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L89	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"20060129370"|"7151575"|"20040054910"|"20060095638"|"20020085023"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"7162499"|"20030093792"|"20070008302"|"20080046950"|"20060095638"|"20020023270"|"20020085023").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L90	20	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		6536041-$).did.					
L91	12	L90 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L92	4	L90 and wireless near5 receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L93	4	"9,961,400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L94	4	"9961400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L95	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L96	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L97	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L98	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L99	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		6996837-$ or US-6536041-$).did.					
L100	11	L99 and messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L101	6635	messag$3 same (history version) same number same "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L102	3426	messag$3 same (history version) same number same video	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L103	506	messag$3 same (history version) same number same video and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L104	93	messag$3 same (history version) same number same video same (upgrade update) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L105	7	"no" same (upgrade update) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L106	7	"no" same (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L107	0	"no" adj (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L108	0	"no" adj (upgrad$3 updat$3 change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L109	1471	(message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L110	212	"no" same (message	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28

		notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)					05:53 PM
L111	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L112	1386	L109 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L113	20	L111 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L114	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L115	3	(US-20060095638-$ or US-20050144651-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:13 PM
L116	1	L115 and transceiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:13 PM
L117	1	L115 and history	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:28 PM
L118	2	L115 and version	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:49 PM
L119	4172	edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/25 07:19 PM
L120	2	edid same history same number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/25 07:20 PM
L121	637	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3 ("Yuya"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/05/25 07:29 PM
L122	637	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/05/26 11:14 AM

		("Yuya"))).INV.					
L123	10	L122 and history	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/26 11:14 AM
L124	1	L122 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/26 11:16 AM
L125	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 05:33 PM
L126	0	"12783329" and transceiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 05:34 PM
L127	3	(US-20060095638-$ or US-20050144651-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 06:54 PM
L128	1	L127 and receiver same wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 06:55 PM
L129	30115	(H04N5/44 or H04N21/4104 or H04N21/2368 or H04N21/4363 or H04N21/43615 or H04N21/4341 or H04N21/4307 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 06:58 PM
L130	2806	L129 and (messag$3 indicator) same receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 06:59 PM
L131	1	L129 and (messag$3 indicator) same receiver same "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:01 PM
L132	40	L129 and (messag$3 indicator) same receiver same (version history) adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:02 PM
L133	1	"20110004911"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:21 PM
L134	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:26 PM

		6996837-$ or US-6536041-$).did.					
L135	11	L134 and message$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:26 PM
L136	1419	"no change" near10 messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:28 PM
L137	10	L136 and L129	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:29 PM
L138	8	"no change" same EDID	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:39 PM
L139	2	"no change" same EDID same status	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:51 PM
L140	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 09:21 PM
L141	1	"12783329" and "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 09:32 PM
L142	160385	(H04N5/44 or H04N21/2368 or H04N21/4112 or H04N21/43076 or H04N21/4341 or H04N21/43615 or H04N21/4363 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/01 10:08 AM
L143	0	L142 AND L139	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/01 10:08 AM
L144	0	L142 AND L136	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2022/11/01 10:09 AM

			HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L145	22	("20080046950"|"20080191582"|"7353158"|"20020085023"|"20030093792"|"20060095638"|"20060129370"|"20070008302"|"20080320539"|"6996837"|"7151575"|"20070230909"|"20080320539"|"20020023270"|"20020085023"|"20060095638"|"20060129370"|"7162499"|"20060095638"|"20060129370"|"20070222779"|"20080320539"|"20020023270"|"20040003403"|"20040187151"|"20050210501"|"6536041"|"7028057"|"7162499"|"20040054910"|"20050144651"|"20060095638"|"7162499"|"20050144651"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/27 03:47 PM
L145	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/06 11:14 AM
L146	21	((US-20080320539-A1 OR US-20080046950-A1 OR US-20080191582-A1 OR US-20070230909-A1 OR US-20070222779-A1 OR US-20070008302-A1 OR US-20060129370-A1 OR US-20060095638-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO,	OR	ON	ON	2023/09/28 02:08 AM

		A1 OR US-20050144651-A1 OR US-20050210501-A1 OR US-20040187151-A1 OR US-20040054910-A1 OR US-20040003403-A1 OR US-20030093792-A1 OR US-20020085023-A1 OR US-20020023270-A1).did. AND PGPB.dbnm.) OR ((US-7162499-B2 OR US-7151575-B1 OR US-6996837-B1 OR US-7028057-B1 OR US-6536041-B1).did. AND USPT.dbnm.)	NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L146	56913	"s21"	(USPAT)	OR	OFF	OFF	2015/11/11 09:00 AM
L147	0	L146 AND parameter SAME status SAME messag$3	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/28 02:08 AM
L147	1444	L146 and crc	(USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM
L148	1	L146 AND capability ADJ information	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/28 02:09 AM
L148	21	("20020023270"|"20040	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11

		003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.					09:05 AM
L149	2	L146 AND parameter SAME predetermined	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/28 02:10 AM
L149	6	L148	(USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM
L150	5	L146 AND edid	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/28 02:10 AM
L150	1	L148 and crc	(USPAT)	OR	OFF	OFF	2015/11/11 09:06 AM
L151	0	(messag$3 indicator) SAME receiver SAME "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/09/28 02:16 AM
L151	3	L148 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 09:12 AM
L152	4	"20080320539"	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/28

							08:43 AM
L152	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:44 PM
L153	4	"20070222779"	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/28 08:43 AM
L153	1	"12783329" and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:44 PM
L154	3	"20070230909"	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/28 08:44 AM
L154	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:53 PM
L155	4	"20080320539"	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/28 08:44 AM
L155	5	L154 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:53 PM
L156	13	L154 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:37 PM
L157	1	"12783329" and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:40 PM
L158	6	L154 and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:42 PM
L159	8	L154 and identification	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:45 PM
L160	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/04 04:27 PM
L161	1	L160 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/04 04:30 PM
L162	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/07 10:49 AM
L163	0	L162 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/07 11:27 AM
L164	5	(US-20060129370-$ or	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26

		US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.					12:50 PM
L165	4	L164 and compar$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 01:02 PM
L166	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:20 PM
L167	0	L166 and attach$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:20 PM
L168	3	L166 and request	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:23 PM
L169	2	L166 and forward	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:32 PM
L170	1	L166 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:47 PM
L171	0	L166 and messag	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:59 PM
L172	1	L166 and message	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:59 PM
L173	1	L172 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:17 PM
L174	0	L172 AND ((g06f17/30575).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:18 PM
L175	2	L166 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:19 PM
L176	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:31 PM

		20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"20060129370"|"7151575"|"20040054910"|"20060095638"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"7162499"|"20030093792"|"20070008302"|"20080046950"|"20060095638"|"20020023270"|"20020085023").PN.					
L177	20	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:43 AM
L178	12	L177 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:43 AM
L179	4	L177 and wireless near5 receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:44 AM
L180	2	"9,961,400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 01:51 PM
L181	2	"9961400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 01:51 PM
L182	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 05:09 PM
L183	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/09 04:12 PM
L184	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/09 04:52 PM
L185	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/22 10:03 AM

		US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.					
L186	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:27 PM
L187	11	L186 and messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:27 PM
L188	6477	messag$3 same (history version) same number same "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:40 PM
L189	3287	messag$3 same (history version) same number same video	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:44 PM
L190	483	messag$3 same (history version) same number same video and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:44 PM
L191	89	messag$3 same (history version) same number same video same (upgrade update) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:47 PM
L192	7	"no" same (upgrade update) same message	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:07 PM

		same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.					
L193	7	"no" same (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:08 PM
L194	0	"no" adj (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:09 PM
L195	0	"no" adj (upgrad$3 updat$3 change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:09 PM
L196	1447	(message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/26 02:19 PM
L197	205	"no" same (message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/26 02:21 PM
L198	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:21 PM

		$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.					
L199	1364	L196 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:21 PM
L200	20	L198 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:22 PM
L201	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 01:46 PM
L202	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L203	81850	"s21"	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L204	2034	L203 and crc	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L205	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L206	6	L205	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L207	1	L205 and crc	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L208	3	L205 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L209	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L210	1	"12783329" and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L211	21	("20020023270"|"20040	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28

		003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.					05:53 PM
L212	5	L211 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L213	13	L211 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L214	1	"12783329" and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L215	6	L211 and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L216	8	L211 and identification	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L217	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L218	1	L217 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L219	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L220	0	L219 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L221	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L222	4	L221 and compar$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L223	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

L224	0	L223 and attach$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L225	3	L223 and request	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L226	2	L223 and forward	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L227	1	L223 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L228	0	L223 and messag	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L229	1	L223 and message	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L230	1	L229 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L231	0	L229 AND ((g06f17/30575).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L232	2	L223 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L233	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"20060129370"|"7151575"|"20040054910"|"20060095638"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"7162499"|"20030093792"|"20070008302"|"20080046950"|"20060095638"|"20020023270"|"20020085023").P	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		N.					
L234	20	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L235	12	L234 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L236	4	L234 and wireless near5 receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L237	4	"9,961,400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L238	4	"9961400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L239	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L240	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L241	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L242	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		6536041-$).did.					
L243	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L244	11	L243 and messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L245	6635	messag$3 same (history version) same number same "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L246	3426	messag$3 same (history version) same number same video	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L247	506	messag$3 same (history version) same number same video and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L248	93	messag$3 same (history version) same number same video same (upgrade update) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L249	7	"no" same (upgrade update) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L250	7	"no" same (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L251	0	"no" adj (upgrade update change) same	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.					
L252	0	"no" adj (upgrad$3 updat$3 change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L253	1471	(message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L254	212	"no" same (message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L255	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L256	1386	L253 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L257	20	L255 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L258	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L259	3	(US-20060095638-$ or US-20050144651-$).did. or (US-7162499-	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:13 PM

		$).did.					
L260	1	L259 and transceiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:13 PM
L261	1	L259 and history	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:28 PM
L262	2	L259 and version	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:49 PM
L263	4172	edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/25 07:19 PM
L264	2	edid same history same number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/25 07:20 PM
L265	637	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3 ("Yuya"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/05/25 07:29 PM
L266	637	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3 ("Yuya"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/05/26 11:14 AM
L267	10	L266 and history	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/26 11:14 AM
L268	1	L266 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/26 11:16 AM
L269	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 05:33 PM
L270	0	"12783329" and transceiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 05:34 PM
L271	3	(US-20060095638-$ or US-20050144651-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 06:54 PM
L272	1	L271 and receiver same wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 06:55 PM
L273	30115	(H04N5/44 or H04N21/4104 or H04N21/2368 or H04N21/4363 or H04N21/43615 or H04N21/4341 or H04N21/4307 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 06:58 PM
L274	2806	L273 and (messag$3 indicator) same receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 06:59 PM
L275	1	L273 and (messag$3 indicator) same receiver same "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:01 PM
L276	40	L273 and (messag$3 indicator) same receiver same (version history) adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:02 PM
L277	1	"20110004911"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15

							07:21 PM
L278	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:26 PM
L279	11	L278 and message$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:26 PM
L280	1419	"no change" near10 messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:28 PM
L281	10	L280 and L273	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:29 PM
L282	8	"no change" same EDID	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:39 PM
L283	2	"no change" same EDID same status	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:51 PM
L284	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 09:21 PM
L285	1	"12783329" and "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 09:32 PM
L286	160385	(H04N5/44 or H04N21/2368 or H04N21/4112 or H04N21/43076 or H04N21/4341 or H04N21/43615 or H04N21/4363 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/01 10:08 AM
L287	0	L286 AND L283	(US-PGPUB; USPAT; USOCR; FIT (AP, AT,	OR	ON	ON	2022/11/01 10:08 AM

			AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L288	0	L286 AND L280	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/01 10:09 AM
L289	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/06 11:14 AM
L290	56913	"s21"	(USPAT)	OR	OFF	OFF	2015/11/11 09:00 AM
L291	1444	L290 and crc	(USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM
L292	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"2005	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM

		0210501"|"2008032053 9"|"20080191582"|"200 80320539"|"7353158"|" 20030093792"|"200700 08302"|"20080046950"| "20060095638").PN.					
L293	6	L292	(USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM
L294	1	L292 and crc	(USPAT)	OR	OFF	OFF	2015/11/11 09:06 AM
L295	3	L292 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 09:12 AM
L296	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:44 PM
L297	1	"12783329" and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:44 PM
L298	21	("20020023270"|"20040 003403"|"20040187151 "|"6996837"|"6536041"|" 20070230909"|"200601 29370"|"20070222779"| "7028057"|"7162499"|"7 151575"|"20040054910 "|"20020085023"|"2005 0210501"|"2008032053 9"|"20080191582"|"200 80320539"|"7353158"|" 20030093792"|"200700 08302"|"20080046950"| "20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:53 PM
L299	5	L298 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 03:53 PM
L300	13	L298 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:37 PM
L301	1	"12783329" and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:40 PM
L302	6	L298 and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:42 PM
L303	8	L298 and identification	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/11 04:45 PM
L304	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270- $).did. or (US-7162499- $).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/04 04:27 PM
L305	1	L304 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/04 04:30 PM
L306	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270- $).did. or (US-7162499-	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/07 10:49 AM

		$).did.					
L307	0	L306 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/11/07 11:27 AM
L308	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 12:50 PM
L309	4	L308 and compar$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 01:02 PM
L310	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:20 PM
L311	0	L310 and attach$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:20 PM
L312	3	L310 and request	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:23 PM
L313	2	L310 and forward	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:32 PM
L314	1	L310 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:47 PM
L315	0	L310 and messag	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:59 PM
L316	1	L310 and message	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:59 PM
L317	1	L316 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:17 PM
L318	0	L316 AND ((g06f17/30575).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:18 PM
L319	2	L310 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:19 PM

		H04N7/163 OR H04N7/165).CPC.)					
L320	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"20060129370"|"7151575"|"20040054910"|"20060095638"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"7162499"|"20030093792"|"20070008302"|"20080046950"|"20060095638"|"20020023270"|"20020085023").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 06:31 PM
L321	20	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:43 AM
L322	12	L321 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:43 AM
L323	4	L321 and wireless near5 receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/12/22 09:44 AM
L324	2	"9,961,400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 01:51 PM
L325	2	"9961400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 01:51 PM
L326	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/03 05:09 PM
L327	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/09 04:12 PM
L328	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/09 04:52 PM

L329	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/22 10:03 AM
L330	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:27 PM
L331	11	L330 and messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:27 PM
L332	6477	messag$3 same (history version) same number same "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 07:40 PM
L333	3287	messag$3 same (history version) same number same video	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:44 PM
L334	483	messag$3 same (history version) same number same video and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:44 PM
L335	89	messag$3 same (history version) same	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:47 PM

		number same video same (upgrade update) and h04n21/$.cpc.					
L336	7	"no" same (upgrade update) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:07 PM
L337	7	"no" same (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:08 PM
L338	0	"no" adj (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:09 PM
L339	0	"no" adj (upgrad$3 updat$3 change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:09 PM
L340	1447	(message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/26 02:19 PM
L341	205	"no" same (message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/26 02:21 PM
L342	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:21 PM

		US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.					
L343	1364	L340 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:21 PM
L344	20	L342 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/26 02:22 PM
L345	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 01:46 PM
L346	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L347	81850	"s21"	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L348	2034	L347 and crc	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L349	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L350	6	L349	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L351	1	L349 and crc	(USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L352	3	L349 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

L353	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L354	1	"12783329" and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L355	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L356	5	L355 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L357	13	L355 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L358	1	"12783329" and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L359	6	L355 and id	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L360	8	L355 and identification	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L361	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L362	1	L361 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L363	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L364	0	L363 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L365	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L366	4	L365 and compar$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L367	5	(US-20060129370-$ or	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28

		US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.					05:53 PM
L368	0	L367 and attach$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L369	3	L367 and request	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L370	2	L367 and forward	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L371	1	L367 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L372	0	L367 and messag	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L373	1	L367 and message	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L374	1	L373 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L375	0	L373 AND ((g06f17/30575).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L376	2	L367 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L377	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"20060129370"|"7151575"|"20040054910"|"20060095638"|"20020085023"|"20050210501"|"20080320539"|"200801915	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		82"|"20080320539"|"73 53158"|"7162499"|"200 30093792"|"200700083 02"|"20080046950"|"20 060095638"|"20020023 270"|"20020085023").P N.					
L378	20	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L379	12	L378 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L380	4	L378 and wireless near5 receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L381	4	"9,961,400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L382	4	"9961400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L383	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L384	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L385	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L386	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.					
L387	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L388	11	L387 and messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L389	6635	messag$3 same (history version) same number same "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L390	3426	messag$3 same (history version) same number same video	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L391	506	messag$3 same (history version) same number same video and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L392	93	messag$3 same (history version) same number same video same (upgrade update) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L393	7	"no" same (upgrade update) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L394	7	"no" same (upgrade update change) same message same (version	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.					
L395	0	"no" adj (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L396	0	"no" adj (upgrad$3 updat$3 change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L397	1471	(message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L398	212	"no" same (message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L399	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L400	1386	L397 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L401	20	L399 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28

							05:53 PM
L402	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L403	3	(US-20060095638-$ or US-20050144651-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:13 PM
L404	1	L403 and transceiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:13 PM
L405	1	L403 and history	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:28 PM
L406	2	L403 and version	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:49 PM
L407	4172	edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/25 07:19 PM
L408	2	edid same history same number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/25 07:20 PM
L409	637	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3 ("Yuya"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/05/25 07:29 PM
L410	637	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3 ("Yuya"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/05/26 11:14 AM
L411	10	L410 and history	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/26 11:14 AM
L412	1	L410 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/26 11:16 AM
L413	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 05:33 PM
L414	0	"12783329" and transceiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 05:34 PM
L415	3	(US-20060095638-$ or US-20050144651-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 06:54 PM
L416	1	L415 and receiver same wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 06:55 PM
L417	30115	(H04N5/44 or H04N21/4104 or H04N21/2368 or H04N21/4363 or H04N21/43615 or H04N21/4341 or H04N21/4307 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 06:58 PM
L418	2806	L417 and (messag$3 indicator) same receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 06:59 PM
L419	1	L417 and (messag$3 indicator) same receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:01 PM

		same "no change"					
L420	40	L417 and (messag$3 indicator) same receiver same (version history) adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:02 PM
L421	1	"20110004911"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:21 PM
L422	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:26 PM
L423	11	L422 and message$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:26 PM
L424	1419	"no change" near10 messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:28 PM
L425	10	L424 and L417	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:29 PM
L426	8	"no change" same EDID	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:39 PM
L427	2	"no change" same EDID same status	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:51 PM
L428	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 09:21 PM
L429	1	"12783329" and "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 09:32 PM
L430	160385	(H04N5/44 or H04N21/2368 or H04N21/4112 or H04N21/43076 or H04N21/4341 or H04N21/43615 or H04N21/4363 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK,	OR	ON	ON	2022/11/01 10:08 AM

			TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L431	0	L430 AND L427	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/01 10:08 AM
L432	0	L430 AND L424	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/01 10:09 AM
L433	170577	(H04N5/44 or H04N21/2368 or H04N21/4112 or H04N21/43076 or H04N21/4341 or H04N21/43615 or H04N21/4363 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/20 12:44 PM
L434	0	first SAME number SAME transmitted SAME first SAME request SAME	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/20 01:06 PM

		message SAME display SAME apparatus SAME second SAME number SAME transmitted SAME second SAME request SAME message SAME display SAME apparatus SAME generated SAME increasing SAME first SAME number SAME second SAME number SAME arbitrary SAME number					
L435	698	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3 ("Yuya"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/05/20 01:08 PM
L436	68	L433 AND L435	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/05/20 01:09 PM
L437	0	L321 AND wireless near5 receiver AND N2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/20 01:10 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	0	L145 AND I146	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/20 01:06 PM
N2	56	L145 AND L147	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/20 01:09 PM
N3	0	L33 AND wireless near5 receiver AND N2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/20 01:10 PM

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/113,545	**04/03/2024 02:53:01 PM Z ET**	**093265-0106**

Title of Invention

VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2508	FILED BY	Joy Waters
PATENT CENTER #	64950207	FILING DATE	02/23/2023
CUSTOMER #	196212	FIRST NAMED INVENTOR	Nobuaki KABUTO
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Yoshiko Ito

Documents

TOTAL DOCUMENTS: 4

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
093265-0106 NFOA Response 2024-04-03.pdf		12	-	68 KB
093265-0106 NFOA Response 2024-04-03-A....pdf	(1-1)	1	Amendment/Request for Reconsideration-After Non-Final Rejection	18 KB
093265-0106 NFOA Response 2024-04-03-CLM.pdf	(2-8)	7	Claims	39 KB
093265-0106 NFOA Response 2024-04-03-REM.pdf	(9-12)	4	Applicant Arguments/Remarks Made in an Amendment	37 KB

093265-0106 EOT 2024-04-03.pdf	2	Extension of Time	199 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
093265-0106 NFOA Response 2024-04-03.pdf	BDC4E1B7C1492A9CDA2B93812634502E0DCCF77FEC18B12B01475B9DC293AEC9BD66D2D1FBB437B4B73021FF5A90DD1C95F14CB344327CA99F4A7B78B980BA86
093265-0106 NFOA Response 2024-04-03-A...pdf	A2DFE47DF624902CF29486447F89E67879FA25334DA448A883712F0931666933ED5B61F81C26A873121E00ADED0C4DA2FABFF84FC4E4E78F59199B55BF05FA2F
093265-0106 NFOA Response 2024-04-03-CLM.pdf	7B252D5162D58CA02DAFEF0619D13AD102466707C1B606D38D78EF227E7989D8CA8CB2C084A94E2FD821E36771C471344C4E502B9F976E7CCB5A109982C54C67
093265-0106 NFOA Response 2024-04-03-REM.pdf	F42ACC870E7A0AEDCA8518A119EFD50AC06C13937A52F001D28CE923AE517C2E7451E9BDB4BC94A28E9CC03421FECC760A0D7EBB0C79C3854A6094E44B577C13
093265-0106 EOT 2024-04-03.pdf	4069997A3F0296A57000F30DAEAADF097E934EEAC122D5513139C2AD22B35BB7E617A9BE3AFD9EDDBDC60DCDCBAB66CA4F067247A7BB5932FCE46F58322823F3

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Docket No.: 093265-0106 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Nobuaki KABUTO et al.	:	Customer Number: 196212
Application No.: 18/113,545	:	Confirmation No.: 2508
Filed: February 23, 2023	:	Art Unit: 2421
For: VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER	:	Examiner: Christen A Kurien

AMENDMENT IN RESPONSE TO NON-FINAL OFFICE ACTION UNDER 37 C.F.R. § 1.111

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

In response to the Office Action dated October 3, 2023 having a three-month shortened statutory period for response set to expire January 3, 2024, and three-month extension of time up to and including April 3, 2024 being filed concurrently herewith, Applicant respectfully requests reconsideration of the above-identified application in view of the following amendments and remarks.

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 9 of this paper.

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1–14. (Cancelled)

15. (Currently Amended) A video transmitting apparatus comprising:

wireless communication circuitry configured to communicate with a display apparatus, the wireless communication circuitry being configured to transmit, while the wireless communication is connected to the display apparatus after a new connection is established with the display apparatus, a first request message and a second request message to the display apparatus;

audio/video signal generation circuitry configured to generate an audio/video signal stream;

a memory; and

control circuitry configured to:

transmit ~~a first request message,~~ to the display apparatus ~~together with a first number~~ via the wireless communication circuitry, the first request message together with a first number;

receive capability information relating to the display apparatus from the display apparatus via the wireless communication circuitry;

store the received capability information relating to the display apparatus in the memory;

determine at least one parameter relating to the audio/video signal stream based on the received capability information relating to the display apparatus;

cause the audio/video signal generation circuitry to generate the audio/video signal stream based on the determined at least one parameter relating to the audio/video signal stream;

transmit the generated audio/video signal stream to the display apparatus via the wireless communication circuitry; and

IPR2025-01310; Samsung
Ex. 1002 - Page 161

when a predetermined condition is met, transmit ~~a second request message,~~ to the display apparatus via the wireless communication circuitry, the second request message together with a second number[[,]] which is different from the first number~~, via the wireless communication circuitry,~~

wherein one of the first number transmitted with the first request message to the display apparatus and the second number transmitted with the second request message to the display apparatus is generated by increasing the other of the first number and the second number by an arbitrary number.

16. (Previously Presented) The video transmitting apparatus according to claim 15, wherein the capability information relates to either EDID (Extended Display Identification Data), normal rated power, brightness of display panel, or total operating time of the display apparatus.

17. (Previously Presented) The video transmitting apparatus according to claim 15, wherein the predetermined condition is met when identification information for wireless communication received from the display apparatus matches identification information stored in the memory.

18. (Previously Presented) The video transmitting apparatus according to claim 15, wherein the predetermined condition is met when specific information included in EDID (Extended Display Identification Data) received from the display apparatus matches specific information stored in the memory.

19. (Previously Presented) The video transmitting apparatus according to claim 18, wherein the specific information included in the EDID is either a checksum value, a CRC (Cyclic Redundancy Check) value, or a hash value of the EDID.

20. (Previously Presented) The video transmitting apparatus according to claim 15, wherein the control circuitry is further configured to transmit the first request message with the first number or the second request message with the second number periodically to the display apparatus via the wireless communication circuitry.

21. (Currently Amended) The video transmitting apparatus according to claim 15, wherein the control circuitry is further configured to store a third number in the memory, the third number being different from the first number, the third number being [[and]] received from the display apparatus via the wireless communication circuitry.

22. (Previously Presented) The video transmitting apparatus according to claim 21, wherein the third number is changed to a fourth number by the display apparatus, and wherein the control circuitry is further configured to store the fourth number in the memory, the fourth number being received from the display apparatus via the wireless communication circuitry.

23. (Currently Amended) A video transmitting apparatus comprising:

wireless communication circuitry configured to communicate with a display apparatus, the wireless communication circuitry being configured to transmit, while the wireless communication is connected to the display apparatus after a new connection is established with the display apparatus, a first request message and a second request message to the display apparatus;

audio/video signal generation circuitry configured to generate an audio/video signal stream;

a memory; and

control circuitry configured to:

transmit, ~~a first request message~~ to the display apparatus ~~together with a first number~~ via the wireless communication circuitry, the first request message together with a first number;

receive capability information relating to the display apparatus from the display apparatus via the wireless communication circuitry;

store the received capability information relating to the display apparatus in the memory;

determine at least one parameter relating to the audio/video signal stream based on the received capability information relating to the display apparatus;

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cause the audio/video signal generation circuitry to generate the audio/video signal stream based on the determined at least one parameter relating to the audio/video signal stream;

transmit the generated audio/video signal stream to the display apparatus via the wireless communication circuitry;

when a predetermined condition is met, transmit, ~~a second request message~~ to the display apparatus via the wireless communication circuitry, the second request message together with a second number[[,]] which is different from the first number~~, via the wireless communication circuitry~~;

store a third number in the memory, the third number being different from the first number and received from the display apparatus via the wireless communication circuitry[[,]]; and

store a fourth number in the memory, the fourth number being generated by the display apparatus based on the third number and received from the display apparatus via the wireless communication circuitry,

wherein one of the first number transmitted with the first request message to the display apparatus and the second number transmitted with the second request message to the display apparatus is generated by increasing the other of the first number and the second number by an arbitrary number.

24. (Previously Presented) The video transmitting apparatus according to claim 23, wherein the capability information relates to either EDID (Extended Display Identification Data), normal rated power, brightness of display panel, or total operating time of the display apparatus.

25. (Currently Amended) A method for controlling a video transmitting apparatus, the video transmitting apparatus comprising: wireless communication circuitry configured to communicate with a display apparatus, the wireless communication circuitry being configured to transmit, while the wireless communication is connected to the display apparatus after a new connection is established with the display apparatus, a first request message and a second request message to the display apparatus; audio/video signal generation circuitry configured to generate an audio/video signal stream; and a memory, the method comprising:

transmitting, ~~a first request message~~ to the display apparatus ~~together with a first number~~ via the wireless communication circuitry, the first request message together with a first number;

receiving capability information relating to the display apparatus from the display apparatus via the wireless communication circuitry;

storing the received capability information relating to the display apparatus in the memory;

determining at least one parameter relating to the audio/video signal stream based on the received capability information relating to the display apparatus;

causing the audio/video signal generation circuitry to generate the audio/video signal stream based on the determined at least one parameter relating to the audio/video signal stream;

transmitting the generated audio/video signal stream to the display apparatus via the wireless communication circuitry; and

in response to meeting a predetermined condition, transmitting, ~~a second request message~~ to the display apparatus via the wireless communication circuitry, the second request message together with a second number[[,]] which is different from the first number~~, via the wireless communication circuitry~~,

wherein one of the first number transmitted with the first request message to the display apparatus and the second number transmitted with the second request message to the display apparatus is generated by increasing the other of the first number and the second number by an arbitrary number.

26. (Previously Presented) The method according to claim 25, wherein the capability information relates to either EDID (Extended Display Identification Data), normal rated power, brightness of display panel, or total operating time of the display apparatus.

27. (Previously Presented) The method according to claim 25, wherein the second request message is sent in response to determining that identification information for wireless communication received from the display apparatus matches identification information stored in the memory.

28. (Previously Presented) The method according to claim 25, wherein the second

request message is sent in response to determining that specific information included in EDID (Extended Display Identification Data) received from the display apparatus matches specific information stored in the memory.

29. (Previously Presented) The method according to claim 28, wherein the specific information included in the EDID is either a checksum value, a CRC (Cyclic Redundancy Check) value, or a hash value of the EDID.

30. (Previously Presented) The method according to claim 25, further comprising transmitting the first request message with the first number or the second request message with the second number periodically to the display apparatus via the wireless communication circuitry.

31. (Currently Amended) The method according to claim 25, further comprising storing a third number in the memory, the third number being different from the first number, the third number being [[and]] received from the display apparatus via the wireless communication circuitry.

32. (Previously Presented) The method according to claim 31,

wherein the third number is changed to a fourth number by the display apparatus, and

wherein the method further comprising storing the fourth number in the memory, the fourth number being received from the display apparatus via the wireless communication circuitry.

33. (Currently Amended) A method for controlling a video transmitting apparatus, the video transmitting apparatus comprising: wireless communication circuitry configured to communicate with a display apparatus, the wireless communication circuitry being configured to transmit, after a new connection is established with the display apparatus, a first request message and a second request message to the display apparatus while the wireless communication circuitry is connected with the display apparatus; audio/video signal generation circuitry configured to generate an audio/video signal stream; and a memory, the method comprising:

transmitting, ~~a first request message~~ to the display apparatus ~~together with a first number~~ via the wireless communication circuitry, the first request message together with a first number;

receiving capability information relating to the display apparatus from the display apparatus via the wireless communication circuitry;

storing the received capability information relating to the display apparatus in the memory;

determining at least one parameter relating to the audio/video signal stream based on the received capability information relating to the display apparatus;

causing the audio/video signal generation circuitry to generate the audio/video signal stream based on the determined at least one parameter relating to the audio/video signal stream;

transmitting the generated audio/video signal stream to the display apparatus via the wireless communication circuitry;

in response to meeting a predetermined condition, transmitting, ~~a second request message~~ to the display apparatus via the wireless communication circuitry, the second request together with a second number[[,]] which is different from the first number~~, via the wireless communication circuitry~~;

storing a third number in the memory, the third number being different from the first number, the third number being [[and]] received from the display apparatus via the wireless communication circuitry; and

storing a fourth number in the memory, the fourth number being generated by the display apparatus based on the third number, the further number being [[and]] received from the display apparatus via the wireless communication circuitry,

wherein one of the first number transmitted with the first request message to the display apparatus and the second number transmitted with the second request message to the display apparatus is generated by increasing the other of the first number and the second number by an arbitrary number.

34. (Currently Amended) The method ~~video transmitting apparatus~~ according to claim 33, wherein the capability information relates to either EDID (Extended Display Identification Data), normal rated power, brightness of display panel, or total operating time of the display apparatus.

REMARKS

Introduction

After entry of the foregoing amendments, claims 15–34 are pending in this application, of which claims 15, 23, 25, and 33 are independent. Claims 1–14 were previously cancelled. By this response, claims 15, 21, 23, 25, 31, 33, and 34 are amended. These amendments are made without prejudice or disclaimer of subject matter and without conceding the correctness of any rejections, and Applicant respectfully reserves the right to pursue the original, previously presented, or cancelled subject matter in this application or continuing applications. All amendments made to the claims are fully supported by the specification as originally filed. Hence, no new matter has been introduced.

Entry of various comments regarding the claims and/or the art, in the Office Action, should not be construed as any acquiescence or agreement by Applicant with the stated reasoning, regardless of whether or not these remarks specifically address any particular comment from the Office Action.

Reconsideration of this application for allowance of all pending claims is hereby respectfully requested in view of the amendments to the claims and following remarks.

Claim Rejection under 35 U.S.C. § 103

1. Claims 15–34 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent Application Publication No. 2006/0095638 ("Unger '5638"), in view of U.S. Patent No. 7,162,499 ("Lees") and U.S. Patent Application Publication No. 2006/0129370 ("Unger '9370").

   Independent claim 15 is amended to recite:

> wireless communication circuitry configured to communicate with a display apparatus, the wireless communication circuitry being configured to transmit, while the wireless communication is connected to the display apparatus after a new connection is established with the display apparatus, a first request message and a second request message to the display apparatus;
>
> audio/video signal generation circuitry configured to generate an audio/video signal stream;
>
> a memory; and
>
> control circuitry configured to:
>
> transmit, to the display apparatus via the wireless communication circuitry, the first request message together with a

first number;

receive capability information relating to the display apparatus from the display apparatus via the wireless communication circuitry;

store the received capability information relating to the display apparatus in the memory;

determine at least one parameter relating to the audio/video signal stream based on the received capability information relating to the display apparatus;

cause the audio/video signal generation circuitry to generate the audio/video signal stream based on the determined at least one parameter relating to the audio/video signal stream;

transmit the generated audio/video signal stream to the display apparatus via the wireless communication circuitry; and

when a predetermined condition is met, transmit, to the display apparatus via the wireless communication circuitry, the second request message together with a second number which is different from the first number,

wherein one of the first number transmitted with the first request message to the display apparatus and the second number transmitted with the second request message to the display apparatus is generated by increasing the other of the first number and the second number by an arbitrary number.

Support for the amendments can be found at least in pages 11–13 of the originally filed specification.

Applicant respectfully submits that the cited references, taken individually or in combination, fail to disclose or suggest the features of amended independent claim 1, particularly with respect to the features of "one of the first number transmitted with the first request message to the display apparatus and the second number transmitted with the second request message to the display apparatus is generated by increasing the other of the first number and the second number by an arbitrary number."

In the rejection of independent claim 1, the Office concedes that Unger '5638 does not teach the features of "transmit a first request message to the display apparatus together with a first number via the wireless communication circuitry" and "transmit a second request message to the display apparatus together with a second number, which is different from the first number, via the wireless communication circuitry." (*See Office Action, pages 2 and 3*).

To remedy the deficiencies of Unger '5638, the Office relies on Lees for teaching the features of "transmit a first request message to the display apparatus together with a first number via the wireless communication circuitry," and on Unger '9370 for teaching the features of "transmit a second request message to the display apparatus together with a second number, which is different from the first number, via the wireless communication circuitry." (*See Id., page 3*).

Lees discloses that "[w]hen computers A and B replicate directories 108 and 114, respectively, there will be a replication conflict because," and the replication conflict can be resolved based on "the higher version number prevails first, followed by the latest timestamp." (*See Lees, Column 3: Lines 59–66*). Lees further discloses that the replication conflict can be resolved with "only a version number, or with only a timestamp." (*See Id., 4:3–5*).

Nothing in Lees teaches how the version numbers are updated, particularly with respect to another version number.

Unger '9370 discloses that "embodiments of the present invention include identifying a difference between the slave device memory 169 and the master device simulator memory 317," and "a data digest value (e.g., checksum) of the slave memory 169 is compared to a digest value of the master device simulator shadow memory 317," where a "difference in the value indicates that a change has been made." (*See Unger '9370, paragraph [0039]*).

Nothing in Unger '9370 teaches how the checksum is updated, particularly with respect to another checksum. Additionally, Applicant believes that it is well known that a checksum is not generated in the claimed manner such as "one of the first number transmitted with the first request message to the display apparatus and the second number transmitted with the second request message to the display apparatus is generated by increasing the other of the first number and the second number by an arbitrary number."

Accordingly, the cited references do not teach the features of "one of the first number transmitted with the first request message to the display apparatus and the second number transmitted with the second request message to the display apparatus is generated by increasing the other of the first number and the second number by an arbitrary number," as recited in amended independent claim 15.

Based on the foregoing, the applied combination of the cited references, alone or in combination, fails to disclose or suggest each and every feature of amended independent claim 15, which is believed to be in condition for allowance. Amended independent claims 23, 25, and 33,

although differing in scope, recites subject matter similar to that discussed above with respect to amended independent claim 15. The dependent claims depend from their respective base claims and add further limitations thereto. Reconsideration and withdrawal of the rejections under 35 U.S.C. § 103 are therefore respectfully requested.

Conclusion

In view of the above amendments and remarks, Applicant submits that this application should be allowed and the case passed to issue. If there are any questions regarding this Amendment or the application in general, a telephone call to the undersigned would be appreciated to expedite the prosecution of the application.

Respectfully submitted,

RIMON, P.C.

/Yoshiko Ito/
Yoshiko Ito
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Date: April 3, 2024

Please recognize our Customer No. 196212 as our correspondence address.

UNITED STATES
PATENT AND TRADEMARK OFFICE

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/113,545	04/03/2024 02:53:01 PM Z ET	093265-0106

Title of Invention

VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2508	FILED BY	Joy Waters
PATENT CENTER #	64950207	AUTHORIZED BY	Yoshiko Ito
CUSTOMER #	196212	FILING DATE	02/23/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Nobuaki KABUTO

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 4168	E202443E56126482	Joy Waters

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1253	EXTENSION FOR RESPONSE WITHIN THIRD MONTH	1480.00	1	1480.00
1201	EACH INDEPENDENT CLAIM IN EXCESS OF THREE	480.00	1	480.00
			TOTAL AMOUNT:	$1,960.00

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New Applications Under 35 U.S.C. 111

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and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

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PTO/AIA/22 (11-23)
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PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)

Docket Number (Optional): 093265-0106

Application Number: 18/113,545

Filed: 2023-02-23

For: VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER

Art Unit: 2421

Examiner: Christen A Kurien

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

		Fee	Small Entity Fee	Micro Entity Fee	
☐	One month (37 CFR 1.17(a)(1))	$220	$88	$44	$
☐	Two months (37 CFR 1.17(a)(2))	$640	$256	$128	$
☑	Three months (37 CFR 1.17(a)(3))	$1,480	$592	$296	$ 1,480
☐	Four months (37 CFR 1.17(a)(4))	$2,320	$928	$464	$
☐	Five months (37 CFR 1.17(a)(5))	$3,160	$1,264	$632	$

☐ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

☐ A check in the amount of the fee is enclosed.

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I am the

☐ applicant.

☑ attorney or agent of record. Registration number 70,437.

☐ attorney or agent acting under 37 CFR 1.34. Registration number _____.

/Yoshiko Ito/ — Signature

April 3, 2024 — Date

Yoshiko Ito — Typed or printed name

(949)996-7255 — Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

☑ * Total of One forms are submitted.

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8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));

9) the Office of Personnel Management (OPM) for personnel research purposes; and

10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

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PTO/SB/06 (09-11)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 18/113,545	Filing Date 02/23/2023	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $480 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	04/03/2024	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 4	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	SLIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/KATARA D SINGLETARY/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/113,545	02/23/2023	Nobuaki KABUTO	093265-0106

CONFIRMATION NO. 2508

POWER OF ATTORNEY NOTICE

20277
MCDERMOTT WILL & EMERY LLP
THE MCDERMOTT BUILDING
500 NORTH CAPITOL STREET, N.W.
WASHINGTON, DC 20001

OC000000065198698

Date Mailed: 12/05/2023

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/27/2023.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/agizaw/

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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/113,545	02/23/2023	Nobuaki KABUTO	093265-0106

CONFIRMATION NO. 2508

196212
Rimon PC - MWE
8300 Greensboro Dr.
Suite 500
McLean, VA 22102

POA ACCEPTANCE LETTER

OC000000065198769

Date Mailed: 12/05/2023

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/27/2023.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/agizaw/

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	18/113,545
Filing Date	02/23/2023
First Named Inventor	Nobuaki KABUTO
Title	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER
Art Unit	2421
Examiner Name	CHRISTEN A KURIEN
Attorney Docket Number	093265-0106

SIGNATURE of Applicant or Patent Practitioner

Signature	/Tomoki Tanida/	Date (Optional)	2023-11-24
Name	Tomoki Tanida	Registration Number	60453
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 09/30/2025. OMB 0651-0035
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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 196212

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Maxell, Ltd.

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature		Date (Optional)	October 19, 2023
Name	Tatsuya Yamamoto		
Title	Corporate Officer, General Manager		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ Total of 1 forms are submitted.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0035. Public burden for this form is estimated to average 3 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, send to: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/113,545	**11/27/2023 09:47:38 AM Z ET**	**093265-0106**

Title of Invention

VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2508	FILED BY	Prince Samuel
PATENT CENTER #	63376581	FILING DATE	02/23/2023
CUSTOMER #	20277	FIRST NAMED INVENTOR	Nobuaki KABUTO
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Tomoki Tanida

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
18113545_POA.pdf	3	Power of Attorney	1503 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
18113545_POA.pdf	2C4C5DC3BC2D87DAFD33E66C071E3ADBC24D262B53D2D09 43F7DE56A946BD36A8A0F81A87039F4A27831A15FE49B2E1B AAACC9EFB53D239D6804029F126A950D

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as

described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/113,545	02/23/2023	Nobuaki KABUTO	093265-0106	2508

20277 7590 10/03/2023

MCDERMOTT WILL & EMERY LLP
THE MCDERMOTT BUILDING
500 NORTH CAPITOL STREET, N.W.
WASHINGTON, DC 20001

EXAMINER
KURIEN, CHRISTEN A

ART UNIT	PAPER NUMBER
2421	

NOTIFICATION DATE	DELIVERY MODE
10/03/2023	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ipdocketmwe@mwe.com

Office Action Summary	Application No. 18/113,545	Applicant(s) KABUTO et al.	
	Examiner CHRISTINE A KURIEN	Art Unit 2421	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 02/23/2023.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 15-34 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 15-34 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Claims 15-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Pub. 2006/0095638 ("Unger '5638") and further in view of US US Pat. 7,162,499 ("Lees") and Pub. 2006/0129370 ("Unger '9370").

2. As to claim 15, Unger '5638 teaches video transmitting apparatus comprising: wireless communication circuitry configured to communicate with a display apparatus (¶0032, ¶0034] ("...the master simulator 54 has a slave-side shadow memory 56 and logic 58 for executing the methods below...[flor instance, security information such as but not limited to encryption keys can be written, using the logic below, by the master 46 to the slave 60...[a]ccordingly, the shadow memories 50, 56 mirror what is in the registers of the slave 60") ; audio/video signal generation circuitry configured to generate an audio/video signal stream; a memory (Unger '5638 at Fig. 4 and [0032-34] (teaching that the master device polls the sink device for device information). Unger '5638 does not teach transmit a first request message to the display apparatus together with a first number via the wireless communication circuitry; receive capability information relating to the display apparatus from the display apparatus via the wireless communication circuitry; store the received capability information in the memory; determine at least one parameter relating to the audio/video signal stream based on the received capability information; cause the audio/video signal generation circuitry to generate the

audio/video signal stream based on the parameter; transmit the generated audio/video signal stream to the display apparatus via the wireless communication circuitry; and when a predetermined condition is met, transmit a second request message to the display apparatus together with a second number, which is different from the first number, via the wireless communication circuitry.

Lees teaches transmit a first request message to the display apparatus together with a first number via the wireless communication circuitry; receive capability information relating to the display apparatus from the display apparatus via the wireless communication circuitry; store the received capability information in the memory; determine at least one parameter relating to the audio/video signal stream based on the received capability information; (See Lees at col. 3-4). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the system of Unger ‘5638 with the version number updating of Lees. One of ordinary skill in the art at the time of the invention would have recognized that this would have been desirable as it would have enabled the system to ascertain which version of the is more current when a discrepancy is discovered between the two devices in Unger's system.

Unger ‘9370 teaches cause the audio/video signal generation circuitry to generate the audio/video signal stream based on the parameter; transmit the generated audio/video signal stream to the display apparatus via the wireless communication circuitry; and when a predetermined condition is met, transmit a second request message to the display apparatus together with a second number, which is different from the first number, via the wireless communication circuitry (a substantially similar system for syncing between a master video source and a slave sink device wherein “writes by the master device are captured by the slave device simulator...[w]henever a change in content is detected, the new data is forwarded by the master device simulator to the slave device simulator. This cache of current data is maintained in the slave device simulator's shadow memory.” Unger ‘9370 at [0007]. Fig. 5 of Unger ‘9370 further teaches a method wherein the system identifies "a difference between the slave

device memory 169 and the master device simulator memory 317. In one embodiment of the invention, a data digest value (e.g., checksum) of the slave memory 169 is compared to a digest value of the master device simulator shadow memory 317. A difference in the value indicates that a change has been made." /d. at [0038]. Fig. 5). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the system of Unger '5638 to incorporate the data digest value and memory syncing of Unger '9370. This would have been desirable as it would have enabled Unger '5638 to ensure that the slave device always contained matching information to the master. One of ordinary skill in the art at the time of the invention would have recognized this as a combination of known elements in the art that would have yielded predictable results.

3. As to claim 16, Unger '5638, Lee and Unger '9370 teaches the video transmitting apparatus according to claim 15, wherein the capability information relates to either EDID (Extended Display Identification Data), normal rated power, brightness of display panel, or total operating time of the display apparatus (Unger '5638, ¶0034).

4. As to claim 17, Unger '5638, Lee and Unger '9370 teaches the video transmitting apparatus according to claim 15, wherein the predetermined condition is met when identification information for wireless communication received from the display apparatus matches identification information stored in the memory (Unger '5638 ¶0038-40).

5. As to claim 18, Unger '5638, Lee and Unger '9370 teaches the video transmitting apparatus according to claim 15, wherein the predetermined condition is met when specific information included in EDID (Extended Display Identification Data) received from the display apparatus matches specific information stored in the memory (Unger '5638, ¶0034).

6. As to claim 19, Unger '5638, Lee and Unger '9370 teaches the video transmitting apparatus according to claim 18, wherein the specific information included in the EDID is either a checksum value, a CRC (Cyclic Redundancy Check) value, or a hash value of the EDID (Unger '5638, ¶0069, ¶0231).

7. As to claim 20, Unger '5638, Lee and Unger '9370 teaches the video transmitting apparatus according to claim 15, wherein the control circuitry is further configured to transmit the first request message with the first number or the second request message with the second number periodically to the display apparatus via the wireless communication circuitry (Unger '5638, ¶0069, ¶0231).

8. As to claim 21, Unger '5638, Lee and Unger '9370 teaches the video transmitting apparatus according to claim 15, wherein the control circuitry is further configured to store a third number in the memory, the third number being different from the first number and the second number, and received from the display apparatus via the wireless communication circuitry (0039-40, that invalid or outdated history information stored at the slave device is updated) .

9. As to claim 22, Unger '5638, Lee and Unger '9370 teaches the video transmitting apparatus according to claim 21 wherein the third number is changed to a fourth number by the display apparatus, and wherein the control circuitry is further configured to store the fourth number in the memory, the fourth number being received from the display apparatus via the wireless communication circuitry (0039-40).

10. As to claim 23, Unger '5638 teaches a video transmitting apparatus comprising: wireless communication circuitry configured to communicate with a display apparatus; audio/video signal generation circuitry configured to generate an audio/video signal stream (¶0032, ¶0034] ("...the master simulator 54 has a slave-side shadow memory 56 and logic 58 for executing the methods below...[flor instance, security information such as but not limited to encryption keys can be written, using the logic below, by the master 46 to the slave 60...[a]ccordingly, the shadow memories 50, 56 mirror what is in the registers of the slave 60"); a memory , store a third number in the memory, the third number being

different from the first number and the second number, and received from the display apparatus via the wireless communication circuitry, and store a fourth number in the memory, the fourth number being different from the first to third numbers, generated by the display apparatus based on the third number, (Unger '5638 at Fig. 4 and [0032-34] (teaching that the master device polls the sink device for device information), when a predetermined condition is met, transmit a second request message to the display apparatus together with a second number[0032-34]. Unger '5638 does not teach control circuitry configured to: transmit a first request message to the display apparatus together with a first number via the wireless communication circuitry; receive capability information relating to the display apparatus from the display apparatus via the wireless communication circuitry; store the received capability information in the memory; determine at least one parameter relating to the audio/video signal stream based on the received capability information; cause the audio/video signal generation circuitry to generate the audio/video signal stream based on the parameter; transmit the generated audio/video signal stream to the display apparatus via the wireless communication circuitry; when a predetermined condition is met, transmit a second request message to the display apparatus together with a second number, which is different from the first number, via the wireless communication circuitry; store a third number in the memory, the third number being different from the first number and the second number, and received from the display apparatus via the wireless communication circuitry, and store a fourth number in the memory, the fourth number being different from the first to third numbers, generated by the display apparatus based on the third number, and received from the display apparatus via the wireless communication circuitry.

Lees teaches control circuitry configured to: transmit a first request message to the display apparatus together with a first number via the wireless communication circuitry; receive capability information relating to the display apparatus from the display apparatus via the wireless communication circuitry; store the received capability information in the memory; determine at least one parameter

relating to the audio/video signal stream based on the received capability information See Lees at col. 3-4). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the system of Unger ‘5638 with the version number updating of Lees. One of ordinary skill in the art at the time of the invention would have recognized that this would have been desirable as it would have enabled the system to ascertain which version of the is more current when a discrepancy is discovered between the two devices in Unger's system.

Unger ‘9370 teaches cause the audio/video signal generation circuitry to generate the audio/video signal stream based on the parameter; transmit the generated audio/video signal stream to the display apparatus via the wireless communication circuitry;, which is different from the first number, via the wireless communication circuitry; and received from the display apparatus via the wireless communication circuitry circuitry (a substantially similar system for syncing between a master video source and a slave sink device wherein “writes by the master device are captured by the slave device simulator...[w]henever a change in content is detected, the new data is forwarded by the master device simulator to the slave device simulator. This cache of current data is maintained in the slave device simulator's shadow memory.” Unger ‘9370 at [0007]. Fig. 5 of Unger ‘9370 further teaches a method wherein the system identifies "a difference between the slave device memory 169 and the master device simulator memory 317. In one embodiment of the invention, a data digest value (e.g., checksum) of the slave memory 169 is compared to a digest value of the master device simulator shadow memory 317. A difference in the value indicates that a change has been made.” /d. at [0038]. Fig. 5). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the system of Unger ‘5638 to incorporate the data digest value and memory syncing of Unger ‘9370. This would have been desirable as it would have enabled Unger ‘5638 to ensure that the slave device always contained matching information to the master. One of ordinary skill in the art at the time of the invention would

have recognized this as a combination of known elements in the art that would have yielded predictable results.

11. As to claim 24, see the rejection of claim 16.

12. As to claim 25, see the rejection of claim 15.

13. As to claim 26, see the rejection of claim 16.

14. As to claim 27, see the rejection of claim 17.

15. As to claim 28, see the rejection of claim 18.

16. As to claim 29, see the rejection of claim 19.

17. As to claim 30, see the rejection of claim 20.

18. As to claim 31, see the rejection of claim 21.

19. As to claim 32, see the rejection of claim 22.

20. As to claim 33, see the rejection of claim 15.

21. As to claim 34, see the rejection of claim 16.

Conclusion

22. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTINE A KURIEN whose telephone number is (571)270-5694. The examiner can normally be reached M-F; 7:30-4:30.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHRISTINE A KURIEN/
Examiner, Art Unit 2421

/NATHAN J FLYNN/
Supervisory Patent Examiner, Art Unit 2421

Notice of References Cited	Application/Control No. 18/113,545	Applicant(s)/Patent Under Reexamination KABUTO et al.	
	Examiner CHRISTINE A KURIEN	Art Unit 2421	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20060129370-A1	06-2006	Unger; Robert A.	G06F13/4045	703/20
*	B	US-20060095638-A1	05-2006	Unger; Robert Allan	G09G5/006	348/E5.002
*	C	US-7162499-B2	01-2007	Lees; William B.	G06F16/273	707/999.203
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/113,545	KABUTO et al.
	Examiner	**Art Unit**
	CHRISTINE A KURIEN	2421

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	09/28/2023								
	1	-								
	2	-								
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	30	✓								
	31	✓								
	32	✓								
	33	✓								
	34	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/113,545	KABUTO et al.
	Examiner	Art Unit
	CHRISTINE A KURIEN	2421

CPC - Searched*		
Symbol	Date	Examiner
(H04N5/44 or H04N21/2368 or H04N21/4112 or H04N21/43076 or H04N21/4341 or H04N21/43615 or H04N21/4363 or H04N21/44231 or H04N5/76).cpc.	09/27/2023	

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Search	09/27/2023	ck
Inventor Name Search (Double patenting)	09/27/2023	ck

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"7151575"|"20040054910"|"20020085023"|"20050210501"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"20030093792"|"20070008302"|"20080046950"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/11/06 11:14 AM
L2	56913	"s21"	(USPAT)	OR	OFF	OFF	2015/11/11 09:00 AM
L3	1444	L2 and crc	(USPAT)	OR	OFF	OFF	2015/11/11 09:05 AM
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L25	2	L22 and forward	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26 05:32 PM
L26	1	L22 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2018/04/26

							05:47 PM
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L40	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/09/09 04:52 PM
L41	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/22 10:03 AM
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L45	3287	messag$3 same (history version) same number same video	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:44 PM
L46	483	messag$3 same (history version) same number same video and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:44 PM
L47	89	messag$3 same (history version) same number same video same (upgrade update) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/05/25 07:47 PM
L48	7	"no" same (upgrade update) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:07 PM
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L51	0	"no" adj (upgrad$3 updat$3 change) same message same (version	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/05/25 08:09 PM

		history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.					
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L72	8	L67 and identification	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28

							05:53 PM
L73	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L74	1	L73 and crc	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L75	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L76	0	L75 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L77	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L78	4	L77 and compar$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L79	5	(US-20060129370-$ or US-20060095638-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L80	0	L79 and attach$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L81	3	L79 and request	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L82	2	L79 and forward	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L83	1	L79 and edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L84	0	L79 and messag	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L85	1	L79 and message	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L86	1	L85 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

		H04N7/163 OR H04N7/165).CPC.)					
L87	0	L85 AND ((g06f17/30575).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L88	2	L79 AND ((H04N21/23611 OR H04N21/262 OR H04N21/26266 OR H04N21/266 OR H04N21/4331 OR H04N21/434 OR H04N21/4532 OR H04N21/454 OR H04N21/488 OR H04N7/163 OR H04N7/165).CPC.)	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L89	21	("20020023270"|"20040003403"|"20040187151"|"6996837"|"6536041"|"20070230909"|"20060129370"|"20070222779"|"7028057"|"7162499"|"20060129370"|"7151575"|"20040054910"|"20060095638"|"20020085023"|"20080320539"|"20080191582"|"20080320539"|"7353158"|"7162499"|"20030093792"|"20070008302"|"20080046950"|"20060095638"|"20020023270"|"20020085023").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L90	20	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L91	12	L90 and wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM

L92	4	L90 and wireless near5 receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L93	4	"9,961,400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L94	4	"9961400"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L95	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L96	2	"20050144651"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L97	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L98	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L99	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L100	11	L99 and messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28

							05:53 PM
L101	6635	messag$3 same (history version) same number same "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L102	3426	messag$3 same (history version) same number same video	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L103	506	messag$3 same (history version) same number same video and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L104	93	messag$3 same (history version) same number same video same (upgrade update) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L105	7	"no" same (upgrade update) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L106	7	"no" same (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L107	0	"no" adj (upgrade update change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L108	0	"no" adj (upgrad$3 updat$3 change) same message same (version history) same number same (stb (set adj top adj box) receiver) and h04n21/$.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L109	1471	(message notification) same (stb (set adj top adj box) receiver) same (upgrade update) and (h04n21/$.cpc. 725/$.ccls.)	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM
L110	212	"no" same (message notification) same (stb (set adj top adj box) receiver) same	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/28 05:53 PM

		(upgrade update) and (h04n21/$.cpc. 725/$.ccls.)					
L111	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L112	1386	L109 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L113	20	L111 and "no"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L114	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/28 05:53 PM
L115	3	(US-20060095638-$ or US-20050144651-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:13 PM
L116	1	L115 and transceiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:13 PM
L117	1	L115 and history	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:28 PM
L118	2	L115 and version	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/02 02:49 PM
L119	4172	edid	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/25 07:19 PM
L120	2	edid same history same number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/25 07:20 PM
L121	637	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3 ("Yuya"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/05/25 07:29 PM
L122	637	((("KABUTO") near3 ("Nobuaki")) OR (("OGI") near3 ("Yuya"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/05/26 11:14 AM
L123	10	L122 and history	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/26 11:14 AM

L124	1	L122 and history adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/05/26 11:16 AM
L125	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 05:33 PM
L126	0	"12783329" and transceiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 05:34 PM
L127	3	(US-20060095638-$ or US-20050144651-$).did. or (US-7162499-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 06:54 PM
L128	1	L127 and receiver same wireless	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/07 06:55 PM
L129	30115	(H04N5/44 or H04N21/4104 or H04N21/2368 or H04N21/4363 or H04N21/43615 or H04N21/4341 or H04N21/4307 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 06:58 PM
L130	2806	L129 and (messag$3 indicator) same receiver	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 06:59 PM
L131	1	L129 and (messag$3 indicator) same receiver same "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:01 PM
L132	40	L129 and (messag$3 indicator) same receiver same (version history) adj number	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:02 PM
L133	1	"20110004911"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:21 PM
L134	21	(US-20080320539-$ or US-20080191582-$ or US-20080046950-$ or US-20070230909-$ or US-20070222779-$ or US-20070008302-$ or US-20060129370-$ or US-20060095638-$ or US-20050210501-$ or US-20040187151-$ or US-20040054910-$ or US-20040003403-$ or US-20030093792-$ or US-20020085023-$ or US-20020023270-$ or US-20050144651-$).did. or (US-7162499-$ or US-7151575-$ or US-7028057-$ or US-6996837-$ or US-6536041-$).did.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:26 PM
L135	11	L134 and message$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15

							07:26 PM
L136	1419	"no change" near10 messag$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:28 PM
L137	10	L136 and L129	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:29 PM
L138	8	"no change" same EDID	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:39 PM
L139	2	"no change" same EDID same status	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 07:51 PM
L140	1	"12783329"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 09:21 PM
L141	1	"12783329" and "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/06/15 09:32 PM
L142	160385	(H04N5/44 or H04N21/2368 or H04N21/4112 or H04N21/43076 or H04N21/4341 or H04N21/43615 or H04N21/4363 or H04N21/44231 or H04N5/76).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/01 10:08 AM
L143	0	L142 AND L139	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/01 10:08 AM
L144	0	L142 AND L136	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL,	OR	ON	ON	2022/11/01 10:09 AM

			PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L145	22	("20080046950"|"20080191582"|"7353158"|"20020085023"|"20030093792"|"20060095638"|"20060129370"|"20070008302"|"20080320539"|"6996837"|"7151575"|"20070230909"|"20080320539"|"20020023270"|"20020085023"|"20060095638"|"20060129370"|"7162499"|"20060095638"|"20060129370"|"20070222779"|"20080320539"|"20020023270"|"20040003403"|"20040187151"|"20050210501"|"6536041"|"7028057"|"7162499"|"20040054910"|"20050144651"|"20060095638"|"7162499"|"20050144651"|"20060095638").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/27 03:47 PM
L146	21	((US-20080320539-A1 OR US-20080046950-A1 OR US-20080191582-A1 OR US-20070230909-A1 OR US-20070222779-A1 OR US-20070008302-A1 OR US-20060129370-A1 OR US-20060095638-A1 OR US-20050144651-A1 OR US-20050210501-A1 OR US-20040187151-A1 OR US-20040054910-A1 OR US-20040003403-A1 OR US-20030093792-A1 OR US-20020085023-A1 OR US-20020023270-A1).did. AND PGPB.dbnm.) OR ((US-7162499-B2 OR US-7151575-B1 OR US-6996837-B1 OR US-7028057-B1 OR US-6536041-B1).did. AND	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/28 02:08 AM

		USPT.dbnm.)					
L147	0	L146 AND parameter SAME status SAME messag$3	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/28 02:08 AM
L148	1	L146 AND capability ADJ information	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/28 02:09 AM
L149	2	L146 AND parameter SAME predetermined	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/09/28 02:10 AM
L150	5	L146 AND edid	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,	OR	ON	ON	2023/09/28 02:10 AM

			MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L151	0	(messag$3 indicator) SAME receiver SAME "no change"	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/09/28 02:16 AM
L152	4	"20080320539"	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/28 08:43 AM
L153	4	"20070222779"	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/28 08:43 AM
L154	3	"20070230909"	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/28 08:44 AM
L155	4	"20080320539"	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/28 08:44 AM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2023-02-23
First Named Inventor	Nobuaki KABUTO
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	093265-0106

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1				/C.A.K/	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/C.A.K/	1	20040054910	A1	2004-03-18	Ichikawa	

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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
/C.A.K/	1	2004-110166	JP	A	2004-04-08	NEC Corp		☐
/C.A.K/	2	2008-102786	JP	A	2008-05-01	Sanyo Electric Co		☐
/C.A.K/	3	5-250239	JP	A	1993-09-28	SHARP CORP		☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.K/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2023-02-23
	First Named Inventor	Nobuaki KABUTO
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	093265-0106

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
/C.A.K/	1	Japanese Office Action issued in Japanese Application No. 2009-158361 issued on October 29, 2013.	☐

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EXAMINER SIGNATURE

Examiner Signature	/CHRISTINE A KURIEN/	Date Considered	09/28/2023

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.K/

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.K/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2023-02-23
First Named Inventor	Nobuaki KABUTO
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	093265-0106

CERTIFICATION STATEMENT

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Signature	/Tomoki Tanida/	Date (YYYY-MM-DD)	2023-02-23
Name/Print	Tomoki Tanida	Registration Number	60,453

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PTO/SB/08a (02-18)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	
Filing Date	2023-02-23
First Named Inventor	Nobuaki KABUTO
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	093265-0106

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/C.A.K/	1	20080191582	A1	2008-08-14	Lutz	Corresponds w/ JP 2006-519549
/C.A.K/	2	20080046950	A1	2008-02-21	Nakajima	Corresponds w/ JP 2008-048136

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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
/C.A.K/	1	2006-519549	JP	A	2006-08-24	Koninklijke Philips NV	Corresponds w/ US 2008/0191582	☐
/C.A.K/	2	2000-194346	JP	A	2000-07-14	NEC HOME ELECTRONICS LTD	w/English abstract	☐

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	First Named Inventor	Nobuaki KABUTO
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	093265-0106

/C.A.K/	3	2008-048136	JP	A	2008-02-28	SONY CORP.	w/English abstract; corresponds w/ US2008/0046950	☐
/C.A.K/	4	10-154121	JP	A	1998-06-09	RICOH CO., LTD.	w/English abstract	☐
/C.A.K/	5	00/01191	WO	A1	2000-01-06	MATSUSHITA ELECTRIC IND. CO., LTD.	w/English abstract; corresponds w/ EP1 093 319	☐
/C.A.K/	6	1 093 319	EP	A1	2001-04-18	MATSUSHITA ELECTRIC IND. CO., LTD.	corresponds w/ WO00/01191	☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

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EXAMINER SIGNATURE

Examiner Signature	/CHRISTINE A KURIEN/	Date Considered	09/28/2023

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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First Named Inventor	Nobuaki KABUTO
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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
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Application Number	
Filing Date	2023-02-23 /C.A.K/
First Named Inventor	Nobuaki KABUTO
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	093265-0106

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/C.A.K/	1	7,353,158	B2	2008-04-01	UNGER	

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/C.A.K/	1	101053011	CN	A	2007-10-10		Corresponds to WO2006/052340A2	☐
/C.A.K/	2	2006/052340	WO	A2	2006-05-18	SONY ELECTRONICS INC.	w/English translation; Corresponds to CN101053011A	☒

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IPR2025-01310; Samsung Ex. 1002 - Page 222

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
/C.A.K/	1	Chinese Office Action w/ English translation thereof, issued in Chinese Patent Application No. 201010189637.1 dated November 3, 2011.	☒

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/C.A.K/	1	20060095638	A1	2006-05-04	UNGER	
/C.A.K/	2	20080320539	A1	2008-12-25	OHKITA	
/C.A.K/	3	20070222779	A1	2007-09-27	FASTERT et al.	
/C.A.K/	4	20060129370	A1	2006-06-15	UNGER	

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IPR2025-01310; Samsung Ex. 1002 - Page 226

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/C.A.K/	1	European Search Report issued in European Patent Application No. EP10250956.9 dated September 24, 2010	☐

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EXAMINER SIGNATURE

Examiner Signature	/CHRISTINE A KURIEN/	Date Considered	09/28/2023

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2023-02-23
First Named Inventor	Nobuaki KABUTO
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	093265-0106

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Tomoki Tanida/	Date (YYYY-MM-DD)	2023-02-23
Name/Print	Tomoki Tanida	Registration Number	60,453

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/113,545	02/23/2023	Nobuaki KABUTO	093265-0106

CONFIRMATION NO. 2508

20277
MCDERMOTT WILL & EMERY LLP
THE MCDERMOTT BUILDING
500 NORTH CAPITOL STREET, N.W.
WASHINGTON, DC 20001

PUBLICATION NOTICE

OC0000000058837796

Date Mailed: 06/30/2023

Title:VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER

Publication No.US-2023-0209009-A1
Publication Date:06/29/2023

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

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Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Docket No.: 093265-0106
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Nobuaki KABUTO et al.	:	Customer Number: 20277
Application No.: 18/113,545	:	Confirmation No.: 2508
Filed: February 23, 2023	:	Art Unit: N/A
For: VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS	:	Examiner: Not Yet Assigned

RESPONSE TO INFORMATIONAL NOTICE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In response to the Informational Notice to Applicant, mailed on March 20, 2023, Applicant respectfully submits copies of the executed Declaration in this application.

Applicant notes that the fee in the amount of $160.00 covering the fee set forth in 37 C.F.R. § 1.16(f) has been previously charged on February 23, 2032; therefore, no fee is believed to be due. However, if a fee is due, please charge our Deposit Account No. 50-0417, under Order No. 093265-0106 from which the undersigned is authorized to draw.

Respectfully submitted,

MCDERMOTT WILL & EMERY LLP

/Tomoki Tanida/

Tomoki Tanida
Registration No. 60,453

The McDermott Building
500 North Capitol Street, NW
Washington, DC 20001-1531
Phone: (202) 756-8196 TT:mb
Facsimile: (202) 756-8087
Date: May 2, 2023

Please recognize our Customer No. 20277 as our correspondence address.

DM_US 196233290-1.093265.0106

Electronic Acknowledgement Receipt

EFS ID:	47940887
Application Number:	18113545
International Application Number:	
Confirmation Number:	2508
Title of Invention:	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER
First Named Inventor/Applicant Name:	Nobuaki KABUTO
Customer Number:	20277
Filer:	Tomoki Tanida/Monique Blakey
Filer Authorized By:	Tomoki Tanida
Attorney Docket Number:	093265-0106
Receipt Date:	02-MAY-2023
Filing Date:	23-FEB-2023
Time Stamp:	18:32:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	dec.pdf	568137 c814afd5177904c88b875a2f3b696ebfd9c1f4c4	no	2

Warnings:

Information:					
2	Applicant Response to Pre-Exam Formalities Notice	response_info_notice.pdf	43122 3c2d081b041de633fdcaf8aea2e77383e7aec6fc	no	1
Warnings:					
Information:					
			Total Files Size (in bytes):	611259	

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

発明の名称 Title of Invention	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS

下記発明者である私は、つぎのことがらを宣誓します。
As the below named inventor, I hereby declare that:

本宣誓は This declaration is directed to:

☑ 添付されている、あるいは The attached application, or

☐ ＿＿＿年＿＿月＿＿日に出願された米国出願番号またはPCT国際出願番号＿＿＿＿＿＿＿＿に宛てられています。
United States application or PCT international application number ＿＿＿＿＿＿＿＿ filed on ＿＿＿＿＿＿＿＿

上記の出願は私自身、あるいは私が権限を授与したものによって行われたものです。
The above-identified application was made or authorized to be made by me.

私は本出願書中にあらわれるもともとの発明者、あるいはもともとの共同発明者です。
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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発明者の正式氏名
LEGAL NAME OF INVENTOR

発明者: Nobuaki KABUTO
Inventor:

日付(任意): February 21, 2023
Date (Optional):

署名: /Nobuaki Kabuto/ Nobuaki KABUTO
Signature:

備考: 出願データシートPTO/SB/14 あるいはその同等用紙)は、発明の自主独立体全体の命名を含め、本用紙に添付すること。なお残余の発明者ごとに PTO/SB/AIA01 用紙を使用する。
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発明の名称 Title of Invention	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS

下記発明者である私は、つぎのことがらを宣誓します。
As the below named inventor, I hereby declare that:

本宣誓は
This declaration is directed to:

☑ 添付されている、あるいは
The attached application, or

☐ ＿＿＿年＿＿月＿＿日に出願された米国出願番号またはPCT国際出願番号＿＿＿＿＿＿＿＿に宛てられています。
United States application or PCT international application number ＿＿＿＿＿＿＿＿ filed on ＿＿＿＿＿＿＿＿

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The above-identified application was made or authorized to be made by me.

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発明者の正式氏名
LEGAL NAME OF INVENTOR

発明者: Yuya OGI
Inventor: ＿＿＿＿＿＿＿＿

日付(任意): March 6, 2023
Date (Optional): ＿＿＿＿＿＿＿＿

署名: /Yuya Ogi/ Yuya OGI
Signature: ＿＿＿＿＿＿＿＿

備考: 出願データシート(PTO/SB/14 あるいはその同等用紙)は、発明の自主独立体全体の命名を含め、本用紙に添付すること。なお残余の発明者ごとに PTO/SB/AIA01 用紙を使用する。
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Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Docket No.: 093265-0106
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Nobuaki KABUTO et al.	:	Customer Number: 20277
Application No.: 18/113,545	:	Confirmation No.: 2508
Filed: February 23, 2023	:	Art Unit: 2421
For: VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS	:	Examiner: Not Yet Assigned

SECOND PRELIMINARY AMENDMENT UNDER 37 C.F.R. § 1.115

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INTRODUCTORY COMMENTS

Prior to examination on the merits, please amend the above-identified U.S. patent application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 8 of this paper.

AMENDMENTS TO THE CLAIMS

1–14. (Cancelled)

15. (New) A video transmitting apparatus comprising:

wireless communication circuitry configured to communicate with a display apparatus;

audio/video signal generation circuitry configured to generate an audio/video signal stream;

a memory; and

control circuitry configured to:

transmit a first request message to the display apparatus together with a first number via the wireless communication circuitry;

receive capability information relating to the display apparatus from the display apparatus via the wireless communication circuitry;

store the received capability information in the memory;

determine at least one parameter relating to the audio/video signal stream based on the received capability information;

cause the audio/video signal generation circuitry to generate the audio/video signal stream based on the parameter;

transmit the generated audio/video signal stream to the display apparatus via the wireless communication circuitry; and

when a predetermined condition is met, transmit a second request message to the display apparatus together with a second number, which is different from the first number, via the wireless communication circuitry.

16. (New) The video transmitting apparatus according to claim 15, wherein the capability information relates to either EDID (Extended Display Identification Data), normal rated power, brightness of display panel, or total operating time of the display apparatus.

17. (New) The video transmitting apparatus according to claim 15, wherein the predetermined condition is met when identification information for wireless communication received from the display apparatus matches identification information stored in the memory.

18. (New) The video transmitting apparatus according to claim 15, wherein the predetermined condition is met when specific information included in EDID (Extended Display Identification Data) received from the display apparatus matches specific information stored in the memory.

19. (New) The video transmitting apparatus according to claim 18, wherein the specific information included in the EDID is either a checksum value, a CRC (Cyclic Redundancy Check) value, or a hash value of the EDID.

20. (New) The video transmitting apparatus according to claim 15, wherein the control circuitry is further configured to transmit the first request message with the first number or the second request message with the second number periodically to the display apparatus via the wireless communication circuitry.

21. (New) The video transmitting apparatus according to claim 15, wherein the control circuitry is further configured to store a third number in the memory, the third number being different from the first number and the second number, and received from the display apparatus via the wireless communication circuitry.

22. (New) The video transmitting apparatus according to claim 21,

wherein the third number is changed to a fourth number by the display apparatus, and

wherein the control circuitry is further configured to store the fourth number in the memory, the fourth number being received from the display apparatus via the wireless communication circuitry.

23. (New) A video transmitting apparatus comprising:

wireless communication circuitry configured to communicate with a display apparatus;

audio/video signal generation circuitry configured to generate an audio/video signal stream;

a memory; and

control circuitry configured to:

transmit a first request message to the display apparatus together with a first number via the wireless communication circuitry;

receive capability information relating to the display apparatus from the display apparatus via the wireless communication circuitry;

store the received capability information in the memory;

determine at least one parameter relating to the audio/video signal stream based on the received capability information;

cause the audio/video signal generation circuitry to generate the audio/video signal stream based on the parameter;

transmit the generated audio/video signal stream to the display apparatus via the wireless communication circuitry;

when a predetermined condition is met, transmit a second request message to the display apparatus together with a second number, which is different from the first number, via the wireless communication circuitry;

store a third number in the memory, the third number being different from the first number and the second number, and received from the display apparatus via the wireless communication circuitry, and

store a fourth number in the memory, the fourth number being different from the first to third numbers, generated by the display apparatus based on the third number, and received from the display apparatus via the wireless communication circuitry.

24. (New) The video transmitting apparatus according to claim 23, wherein the capability information relates to either EDID (Extended Display Identification Data), normal rated power, brightness of display panel, or total operating time of the display apparatus.

25. (New) A method for controlling a video transmitting apparatus, the video transmitting apparatus comprising: wireless communication circuitry configured to communicate with a display apparatus; audio/video signal generation circuitry configured to generate an audio/video signal stream; and a memory, the method comprising:

transmitting a first request message to the display apparatus together with a first number via the wireless communication circuitry;

receiving capability information relating to the display apparatus from the display apparatus via the wireless communication circuitry;

storing the received capability information in the memory;

determining at least one parameter relating to the audio/video signal stream based on the received capability information;

causing the audio/video signal generation circuitry to generate the audio/video signal stream based on the parameter;

transmitting the generated audio/video signal stream to the display apparatus via the wireless communication circuitry; and

in response to meeting a predetermined condition, transmitting a second request message to the display apparatus together with a second number, which is different from the first number, via the wireless communication circuitry.

26. (New) The method according to claim 25, wherein the capability information relates to either EDID (Extended Display Identification Data), normal rated power, brightness of display panel, or total operating time of the display apparatus.

27. (New) The method according to claim 25, wherein the second request message is sent in response to determining that identification information for wireless communication received from the display apparatus matches identification information stored in the memory.

28. (New) The method according to claim 25, wherein the second request message is sent in response to determining that specific information included in EDID (Extended Display Identification Data) received from the display apparatus matches specific information stored in the memory.

29. (New) The method according to claim 28, wherein the specific information included in the EDID is either a checksum value, a CRC (Cyclic Redundancy Check) value, or a hash value of the EDID.

30. (New) The method according to claim 25, further comprising transmitting the first request message with the first number or the second request message with the second number periodically to the display apparatus via the wireless communication circuitry.

31. (New) The method according to claim 25, further comprising storing a third number in the memory, the third number being different from the first number and the second number, and received from the display apparatus via the wireless communication circuitry.

32. (New) The method according to claim 31,

wherein the third number is changed to a fourth number by the display apparatus, and

wherein the method further comprising storing the fourth number in the memory, the fourth number being received from the display apparatus via the wireless communication circuitry.

33. (New) A method for controlling a video transmitting apparatus, the video transmitting apparatus comprising: wireless communication circuitry configured to communicate with a display apparatus; audio/video signal generation circuitry configured to generate an audio/video signal stream; and a memory, the method comprising:

transmitting a first request message to the display apparatus together with a first number via the wireless communication circuitry;

receiving capability information relating to the display apparatus from the display apparatus via the wireless communication circuitry;

storing the received capability information in the memory;

determining at least one parameter relating to the audio/video signal stream based on the received capability information;

causing the audio/video signal generation circuitry to generate the audio/video signal stream based on the parameter;

transmitting the generated audio/video signal stream to the display apparatus via the wireless communication circuitry;

in response to meeting a predetermined condition, transmitting a second request message to the display apparatus together with a second number, which is different from the first number, via the wireless communication circuitry;

storing a third number in the memory, the third number being different from the first number and the second number, and received from the display apparatus via the wireless communication circuitry; and

storing a fourth number in the memory, the fourth number being different from the first to third numbers, generated by the display apparatus based on the third number, and received from the display apparatus via the wireless communication circuitry.

34. (New) The method according to claim 33, wherein the capability information relates to either EDID (Extended Display Identification Data), normal rated power, brightness of display panel, or total operating time of the display apparatus.

REMARKS

Claims 6–10 were pending in this application, and claims 1–5 and 11–14 were previously canceled. In this Amendment, new claims 15–34 are added, and claims 6–10 are cancelled. No new matter has been introduced. Entry of this amendment is respectfully requested.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 50-0417, under Order No. 093265-0106 from which the undersigned is authorized to draw.

Respectfully submitted,

MCDERMOTT WILL & EMERY LLP

/Tomoki Tanida/

Tomoki Tanida
Registration No. 60,453

Please recognize our Customer No. 20277 as our correspondence address.

The McDermott Building
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Date: April 20, 2023

Electronic Acknowledgement Receipt

EFS ID:	47876530
Application Number:	18113545
International Application Number:	
Confirmation Number:	2508
Title of Invention:	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER
First Named Inventor/Applicant Name:	Nobuaki KABUTO
Customer Number:	20277
Filer:	Tomoki Tanida/Shannon LeCroy
Filer Authorized By:	Tomoki Tanida
Attorney Docket Number:	093265-0106
Receipt Date:	20-APR-2023
Filing Date:	23-FEB-2023
Time Stamp:	15:18:00
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		093265-0106_Prelim_Amend.pdf	43071 77eb96eab00ae8dab7a410ae7e486020bd8eaa6a	yes	8

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Preliminary Amendment	1	1
	Claims	2	7
	Applicant Arguments/Remarks Made in an Amendment	8	8
Warnings:			
Information:			
	Total Files Size (in bytes):	43071	

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PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 18/113,545	Filing Date 02/23/2023	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $480 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	04/20/2023	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 3	= 1		x $480 =	480
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	480

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 18/113,545

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	320
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	700
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	800
TOTAL CLAIMS (37 CFR 1.16(i))	5 minus 20 =	* 0			OR	x =	0
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*				x =	0
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1820

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

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*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/113,545	02/23/2023	Nobuaki KABUTO	093265-0106

CONFIRMATION NO. 2508

20277
MCDERMOTT WILL & EMERY LLP
THE MCDERMOTT BUILDING
500 NORTH CAPITOL STREET, N.W.
WASHINGTON, DC 20001

INFORMAL NOTICE

OC000000054929347

Date Mailed: 03/20/2023

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Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):

  Nobuaki KABUTO
  Yuya OGI

  An inventor's oath or declaration in compliance with 37 CFR 1.63 or 1.64 executed by or with respect to each inventor must be submitted no later than the date on which the issue fee is paid in response to a notice requiring such fee. See 37 CFR 1.53(f).

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/k hua/

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/113,545	02/23/2023		1980	093265-0106	5	1

CONFIRMATION NO. 2508

FILING RECEIPT

20277
MCDERMOTT WILL & EMERY LLP
THE MCDERMOTT BUILDING
500 NORTH CAPITOL STREET, N.W.
WASHINGTON, DC 20001

Date Mailed: 03/20/2023

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

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Inventor(s)

Nobuaki KABUTO, Kunitachi, JAPAN;
Yuya OGI, Yokohama, JAPAN;

Applicant(s)

MAXELL, LTD, Kyoto, JAPAN;

Power of Attorney: The patent practitioners associated with Customer Number 20277

Domestic Priority data as claimed by applicant

This application is a CON of 12/783,329 05/19/2010 PAT 11,611,718

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.)
JAPAN 2009-158361 07/03/2009 No Access Code Provided

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/113,545**

Projected Publication Date: 06/29/2023

Non-Publication Request: No

Early Publication Request: No
Title

VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2023-02-23
First Named Inventor	Nobuaki KABUTO
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	093265-0106

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20060095638	A1	2006-05-04	UNGER	
	2	20080320539	A1	2008-12-25	OHKITA	
	3	20070222779	A1	2007-09-27	FASTERT et al.	
	4	20060129370	A1	2006-06-15	UNGER	

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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2023-02-23
	First Named Inventor	Nobuaki KABUTO
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	093265-0106

	1							☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	European Search Report issued in European Patent Application No. EP10250956.9 dated September 24, 2010	☐

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Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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	First Named Inventor	Nobuaki KABUTO
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	093265-0106

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Tomoki Tanida/	Date (YYYY-MM-DD)	2023-02-23
Name/Print	Tomoki Tanida	Registration Number	60,453

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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PTO/SB/08a (02-18)
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Examiner Name	Not Yet Assigned
Attorney Docket Number	093265-0106

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	1	7,353,158	B2	2008-04-01	UNGER	

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U.S.PATENT APPLICATION PUBLICATIONS

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	1	101053011	CN	A	2007-10-10		Corresponds to WO2006/052340A2	☐
	2	2006/052340	WO	A2	2006-05-18	SONY ELECTRONICS INC.	w/English translation; Corresponds to CN101053011A	☒

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	1	Chinese Office Action w/ English translation thereof, issued in Chinese Patent Application No. 201010189637.1 dated November 3, 2011.	☒

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Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER
First Named Inventor/Applicant Name:	Nobuaki KABUTO
Filer:	Tomoki Tanida/Monique Blakey
Attorney Docket Number:	093265-0106

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	320	320
UTILITY SEARCH FEE	1111	1	700	700
UTILITY EXAMINATION FEE	1311	1	800	800
Pages:				
Claims:				
Miscellaneous-Filing:				
LATE FILING FEE FOR OATH OR DECLARATION	1051	1	160	160
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1980**

Electronic Acknowledgement Receipt

EFS ID:	47581543
Application Number:	18113545
International Application Number:	
Confirmation Number:	2508
Title of Invention:	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER
First Named Inventor/Applicant Name:	Nobuaki KABUTO
Customer Number:	20277
Filer:	Tomoki Tanida/Monique Blakey
Filer Authorized By:	Tomoki Tanida
Attorney Docket Number:	093265-0106
Receipt Date:	23-FEB-2023
Filing Date:	
Time Stamp:	19:50:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1980
RAM confirmation Number	E20232MJ51497033
Deposit Account	
Authorized User	

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal of New Application	1_transmittal.pdf	34199 679f17db581302d3ec90f8debcb023b37887092e	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	2_fees.pdf	43368 517c78d9bf44ac402ec6913efe3d594966e82cb8	no	1
Warnings:					
Information:					
3	Power of Attorney	3_poa.pdf	541614 a6d60e4057bf883b4eeec2f2484737f2c69231b1	no	3
Warnings:					
Information:					
4	Application Data Sheet	4_ADS.pdf	113089 7ec2c35a0dc62f67cb08ed45336e6f100160af6c	no	8
Warnings:					
Information:					
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5	Specification	5_spec.pdf	3019863 00ac51be4d77cabf6374499234dffa26cdb8b9cb	no	24
Warnings:					
Information:					
6	Drawings-only black and white line drawings	6_drawings.pdf	652213 8b4ef0072d99a86061f7b97a439093012b2924da	no	5
Warnings:					

Information:					
7	Preliminary Amendment	7_pre_amendment.pdf	37304 95669de1727abda489bca991b3d6da022fbaeaef	no	5
Warnings:					
Information:					
8	Transmittal Letter	8_IDS_transmittal.pdf	27582 18abaed922a5ea0b5a6defd45643e2f5f1aa3858	no	2
Warnings:					
Information:					
9	Information Disclosure Statement (IDS) Form (SB08)	sb08_1.pdf	65687 bbe876136391891824be41a251c285c56960ac6d	no	4
Warnings:					
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10	Information Disclosure Statement (IDS) Form (SB08)	sb08_2.pdf	65096 caf79ad9ffd8ffd24a3b81b2eb1a1ff6d8c84ca6	no	4
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11	Information Disclosure Statement (IDS) Form (SB08)	sb08_3.pdf	64230 2d9701c666c59615dbfe710f74a9e6e10ef7378b	no	4
Warnings:					
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12	Information Disclosure Statement (IDS) Form (SB08)	sb08_4.pdf	64184 5ad31c276590c1dd0360d64decf8a2c8528a09bc	no	4
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Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
14	Fee Worksheet (SB06)	fee-info.pdf	46746 ac026c13f68e737fed3c8535c4a7b9ff0163f476	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	4839308		

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20080191582	A1	2008-08-14	Lutz	Corresponds w/ JP 2006-519549
	2	20080046950	A1	2008-02-21	Nakajima	Corresponds w/ JP 2008-048136

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	1	2006-519549	JP	A	2006-08-24	Koninklijke Philips NV	Corresponds w/ US 2008/0191582	☐
	2	2000-194346	JP	A	2000-07-14	NEC HOME ELECTRONICS LTD	w/English abstract	☐

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	3	2008-048136	JP	A	2008-02-28	SONY CORP.	w/English abstract; corresponds w/ US2008/0046950	☐
	4	10-154121	JP	A	1998-06-09	RICOH CO., LTD.	w/English abstract	☐
	5	00/01191	WO	A1	2000-01-06	MATSUSHITA ELECTRIC IND. CO., LTD.	w/English abstract; corresponds w/ EP1 093 319	☐
	6	1 093 319	EP	A1	2001-04-18	MATSUSHITA ELECTRIC IND. CO., LTD.	corresponds w/ WO00/01191	☐

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Signature	/Tomoki Tanida/	Date (YYYY-MM-DD)	2023-02-23
Name/Print	Tomoki Tanida	Registration Number	60,453

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PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2023-02-23
First Named Inventor	Nobuaki KABUTO
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	093265-0106

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20070230909	A1	2007-10-04	Mukaide et al.	Corresponds to JP2007-267116
	2	20080320539	A1	2008-12-25	Ohkita	Corresponds to JP2009-004877

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	2009-049787	JP	A	2009-03-05	Funai Electric Co	w/English abstract	☐
	2	2000-194346	JP	A	2000-07-14	Nippon Denki Home Electronics	w/English abstract	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2023-02-23
	First Named Inventor	Nobuaki KABUTO
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	093265-0106

	3	2007-267116	JP	A	2007-11-10	TOSHIBA CORP	Corresponds to US2007/0230909	☐
	4	2009-004877	JP	A	2009-01-08	TOSHIBA CORP	Corresponds to US2008/0320539	☐

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Japanese Office Action issued in Japanese Application No. 2009-158361 dated April 23, 2013 with Partial English Translation	☒

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	
Filing Date	2023-02-23
First Named Inventor	Nobuaki KABUTO
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	093265-0106

CERTIFICATION STATEMENT

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OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

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Name/Print	Tomoki Tanida	Registration Number	60,453

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PTO/SB/08a (02-18)
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(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2023-02-23
First Named Inventor	Nobuaki KABUTO
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	093265-0106

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20040054910	A1	2004-03-18	Ichikawa	

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	1	2004-110166	JP	A	2004-04-08	NEC Corp		☐
	2	2008-102786	JP	A	2008-05-01	Sanyo Electric Co		☐
	3	5-250239	JP	A	1993-09-28	SHARP CORP		☐

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Japanese Office Action issued in Japanese Application No. 2009-158361 issued on October 29, 2013.	☐

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	First Named Inventor	Nobuaki KABUTO
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PTO/AIA/15 (10-17)
Approved for use through 11/30/2020. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	093265-0106
First Named Inventor	Nobuaki KABUTO
Title	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS
Priority Mail Express® Label No.	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. [X] **Fee Transmittal Form** (PTO/SB/17 or equivalent)
2. [ ] **Applicant asserts small entity status.** See 37 CFR 1.27
3. [ ] **Applicant certifies micro entity status.** See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.
4. [X] **Specification** [*Total Pages* 24] Both the claims and abstract must start on a new page. *(See MPEP § 608.01(a) for information on the preferred arrangement)*
5. [X] **Drawing(s)** (35 U.S.C. 113) [*Total Sheets* 5]
6. **Inventor's Oath or Declaration** [*Total Pages*] *(including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))*
   a. [ ] Newly executed (original or copy)
   b. [ ] A copy from a prior application (37 CFR 1.63(d))
7. [X] **Application Data Sheet** ** See note below.* See 37 CFR 1.76 (PTO/AIA/14 or equivalent)
8. **CD-ROM or CD-R** in duplicate, large table, or Computer Program (*Appendix*)
   [ ] Landscape Table on CD
9. **Nucleotide and/or Amino Acid Sequence Submission** (*if applicable, items a. – c. are required*)
   a. [ ] Computer Readable Form (CRF)
   b. [ ] Specification Sequence Listing on:
      i. [ ] CD-ROM or CD-R (2 copies); or
      ii. [ ] Paper
   c. [ ] Statements verifying identity of above copies

ADDRESS TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**

ACCOMPANYING APPLICATION PAPERS

10. [ ] **Assignment Papers** (cover sheet & document(s))
    Name of Assignee: Maxell, Ltd.
11. [ ] **37 CFR 3.73(c) Statement** (*when there is an assignee*) [X] **Power of Attorney**
12. [ ] **English Translation Document** (*if applicable*)
13. [X] **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    [ ] Copies of citations attached
14. [X] **Preliminary Amendment**
15. [ ] **Return Receipt Postcard** (*MPEP § 503*) (*Should be specifically itemized*)
16. [ ] **Certified Copy of Priority Document(s)** (*if foreign priority is claimed*)
17. [ ] **Nonpublication Request** Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
18. [ ] **Other:**

***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
(2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS

[X] The address associated with Customer Number: 20277 **OR** [ ] Correspondence address below

Name					
Address					
City		State		Zip Code	
Country		Telephone		Email	

Signature	/Tomoki Tanida/	Date	February 23, 2023
Name (Print/Type)	Tomoki Tanida	Registration No. (Attorney/Agent)	60,453

PTO/SB/17 (10-20)
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FEE TRANSMITTAL

Complete if known	
Application Number	Not Yet Assigned
Filing Date	February 23, 2023
First Named Inventor	Nobuaki KABUTO
Examiner Name	Not Yet Assigned
Art Unit	N/A
Practitioner Docket No.	093265-0106

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TOTAL AMOUNT OF PAYMENT ($) 1,980.00

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☒ Deposit Account Deposit Account Number: 50-0417 Deposit Account Name: McDermott Will & Emery LLP

For the above-identified deposit account, the Director is hereby authorized to (check all that apply):

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, **except for the filing fee**

☒ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayment of fee(s)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES (U = undiscounted fee; S = small entity fee; M = micro entity fee)

	FILING FEES			SEARCH FEES			EXAMINATION FEES			
Application Type	**U ($)**	**S ($)**	**M ($)**	**U ($)**	**S ($)**	**M ($)**	**U ($)**	**S ($)**	**M ($)**	**Fees Paid ($)**
Utility	320	160*	80	700	350	175	800	400	200	1,820.00
Design	220	110	55	160	80	40	640	320	160	
Plant	220	110	55	440	220	110	660	330	165	
Reissue	320	160	80	700	350	175	2,320	1,160	580	
Provisional	300	150	75	0	0	0	0	0	0	

* The $160 small entity status filing fee for a utility application is further reduced to $80 for a small entity status applicant who files the application via EFS-Web.

2. EXCESS CLAIM FEES

Fee Description	**Undiscounted Fee ($)**	**Small Entity Fee ($)**	**Micro Entity Fee ($)**
Each claim over 20 (including Reissues)	100	50	25
Each independent claim over 3 (including Reissues)	480	240	120
Multiple dependent claims	860	430	215

Total Claims	**Extra Claims**	**Fee ($)**	**Fee Paid ($)**
5 - 20 or HP =		x	=

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	**Extra Claims**	**Fee ($)**	**Fee Paid ($)**
1 - 3 or HP =		x	=

HP = highest number of independent claims paid for, if greater than 3.

Multiple Dependent Claims	
Fee ($)	**Fee Paid ($)**

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is $420 ($210 for small entity) ($105 for micro entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	**Extra Sheets**	**Number of each additional 50 or fraction thereof**	**Fee ($)**	**Fee Paid ($)**
- 100 =	/50 =	(round **up** to a whole number)	x	=

4. OTHER FEE(S)

	Fees Paid ($)
Non-English specification, $140 fee ($70 for small entity) ($35 for micro entity)	
Non-electronic filing fee under 37 CFR 1.16(t) for a utility application, $400 fee ($200 small or micro entity)	
Other (e.g., late filing surcharge):	160.00

SUBMITTED BY

Signature	/Tomoki Tanida/	Registration No. (Attorney/Agent)	60,453	Telephone	(202) 756-8196
Name (Print/Type)	Tomoki Tanida			Date	February 23, 2023

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	Not Yet Assigned
Filing Date	February 23, 2023
First Named Inventor	Nobuaki KABUTO
Title	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	093265-0106

SIGNATURE of Applicant or Patent Practitioner

Signature	/Tomoki Tanida/	Date (Optional)	February 23, 2023
Name	Tomoki Tanida	Registration Number	60,453
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ *Total of 1 forms are submitted.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 20277

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☐ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Maxell, Ltd.

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	Keiji Nakamura	Date (Optional)	January 5th, 2022
Name	Keiji NAKAMURA		
Title	President and Representative Director		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/80 (07-17)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

[X] Practitioners associated with Customer Number: 20277

OR

[ ] Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

[X] The address associated with Customer Number: 20277

OR

[ ]

Firm or individual name		
Address		
City	State	Zip
Country		
Telephone	Email	

Assignee name and address: Maxell, Ltd.
1 Koizumi, Oyamazaki, Oyamazaki-Cho, Otokuni-Gun, Kyoto

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee.

Signature Keiji Nakamura	Date January 28th, 2022
Name Keiji NAKAMURA	Telephone
Title President and Representative Director	

This collection of information is required by 37 CFR 1.31, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public, which is to update (and by the USPTO to process) the file of a patent or reexamination proceeding. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 18 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/14 (02-18)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	093265-0106
	Application Number	

Title of Invention	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Nobuaki		KABUTO	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	Kunitachi	Country of Residence	JP

Mailing Address of Inventor:

Address 1	c/o MAXELL, LTD.		
Address 2	1, Koizumi, Oyamazaki, Oyamazaki-cho, Otokuni-gun		
City	Kyoto	State/Province	
Postal Code	618-8525	Country	JP

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Yuya		OGI	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	Yokohama	Country of Residence	JP

Mailing Address of Inventor:

Address 1	c/o MAXELL, LTD.		
Address 2	1, Koizumi, Oyamazaki, Oyamazaki-cho, Otokuni-gun		
City	Kyoto	State/Province	
Postal Code	618-8525	Country	JP

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

IPR2025-01310; Samsung
Ex. 1002 - Page 283

PTO/AIA/14 (02-18)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	093265-0106
	Application Number	
Title of Invention	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS	

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	20277		
Email Address	ipdocketmwe@mwe.com	Add Email	Remove Email

Application Information:

Title of the Invention	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS		
Attorney Docket Number	093265-0106	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	5	**Suggested Figure for Publication (if any)**	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	20277		

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	093265-0106
	Application Number	
Title of Invention	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	12/783329	2010-05-19

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

			Remove
Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)
2009-158361	JP	2009-07-03	

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	093265-0106
	Application Number	
Title of Invention	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

PTO/AIA/14 (02-18)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	093265-0106
	Application Number	
Title of Invention	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:	

If the Applicant is an Organization check here. ☒

Organization Name	MAXELL, LTD.

Mailing Address Information For Applicant:

Address 1	1, Koizumi, Oyamazaki, Oyamazaki-cho, Otokuni-gun		
Address 2			
City	Kyoto	**State/Province**	
Country	JP	Postal Code	618-8525
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	093265-0106
	Application Number	
Title of Invention	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Tomoki Tanida/			Date (YYYY-MM-DD)	2023-02-23
First Name	Tomoki	Last Name	Tanida	Registration Number	60,453

Additional Signature may be generated within this form by selecting the Add button.

PTO/AIA/14 (02-18)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	093265-0106
	Application Number	
Title of Invention	VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent CooperationTreaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

FIG. 1

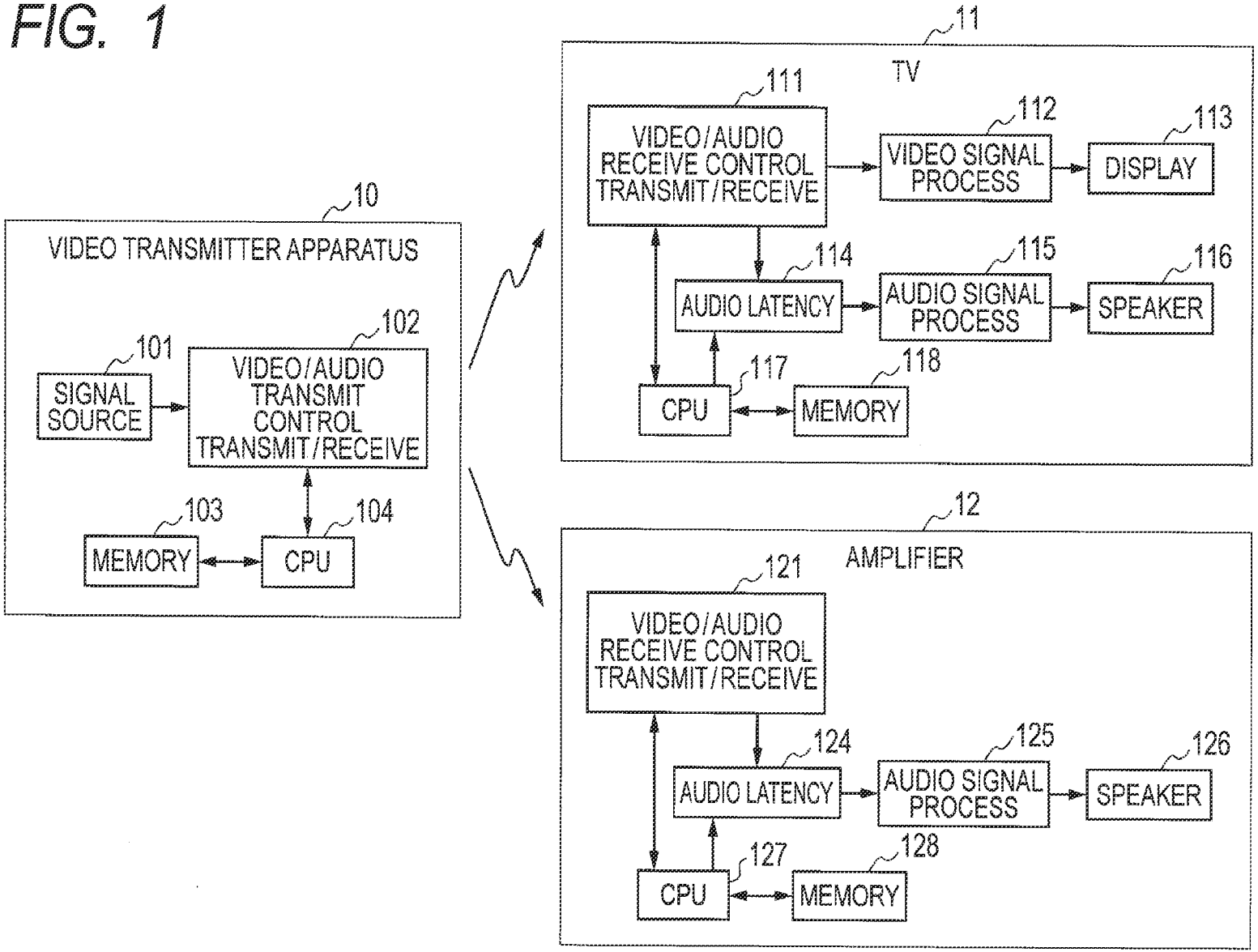

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FIG. 2

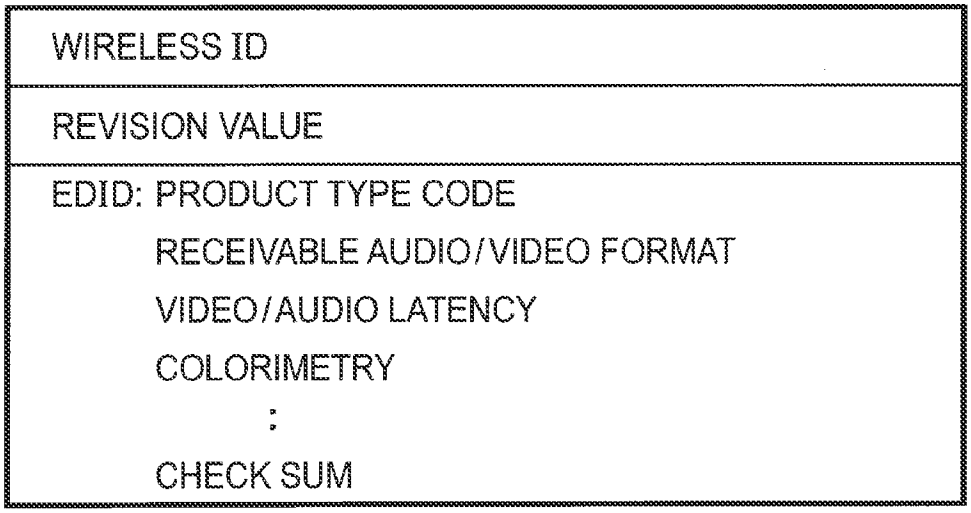
WIRELESS ID
REVISION VALUE
EDID: PRODUCT TYPE CODE
RECEIVABLE AUDIO/VIDEO FORMAT
VIDEO/AUDIO LATENCY
COLORIMETRY
:
CHECK SUM

FIG. 3

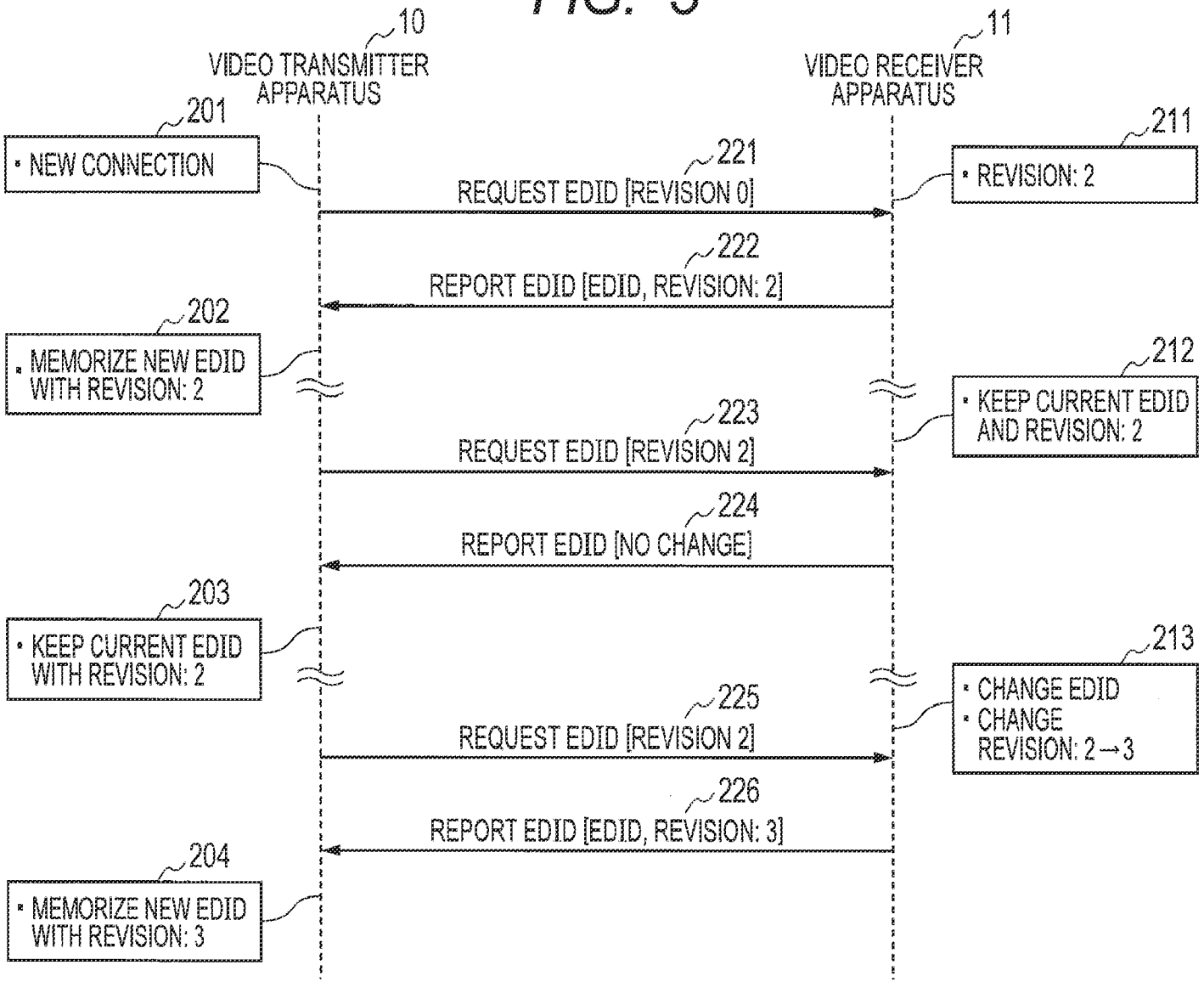

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FIG. 4

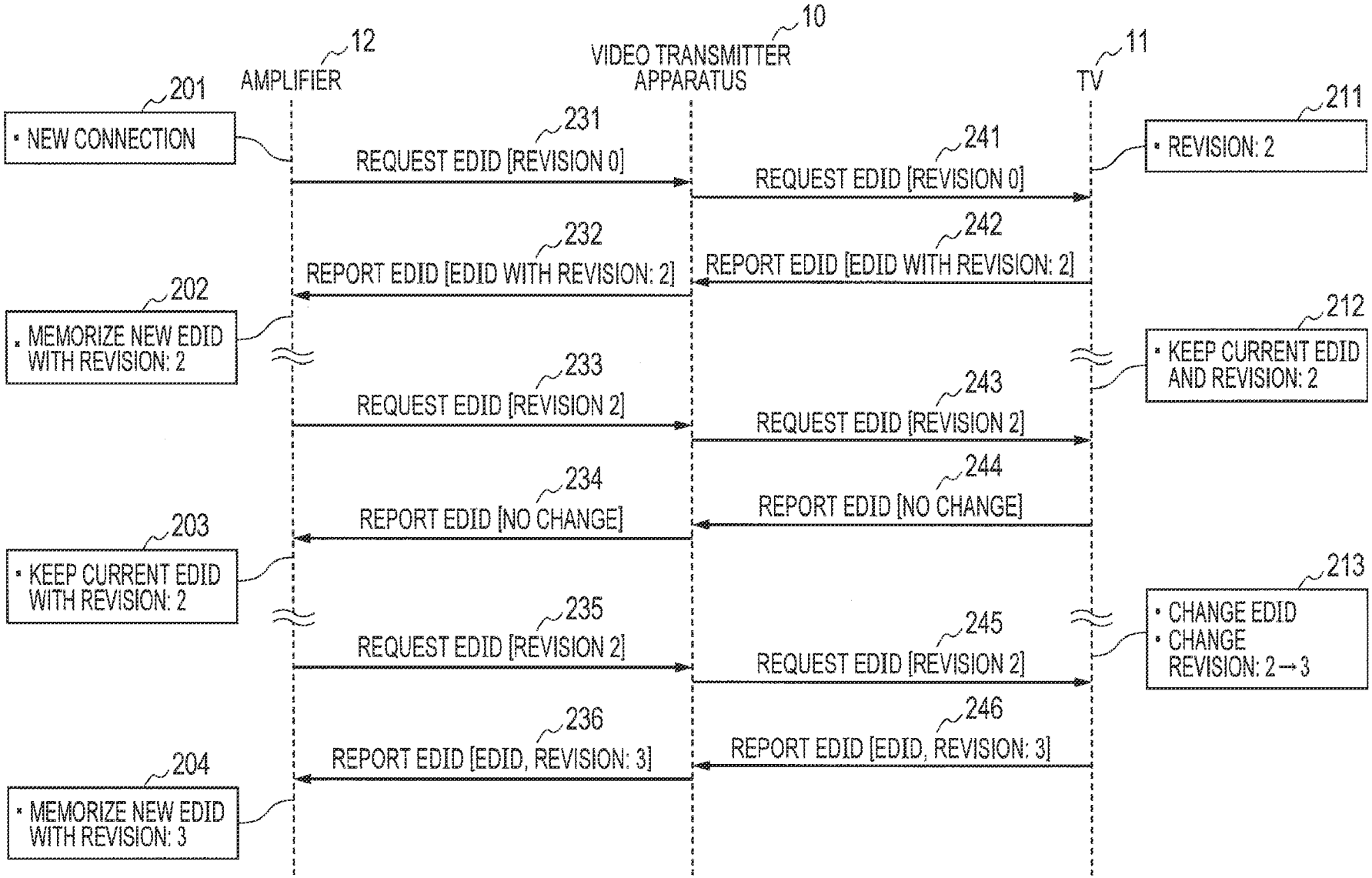

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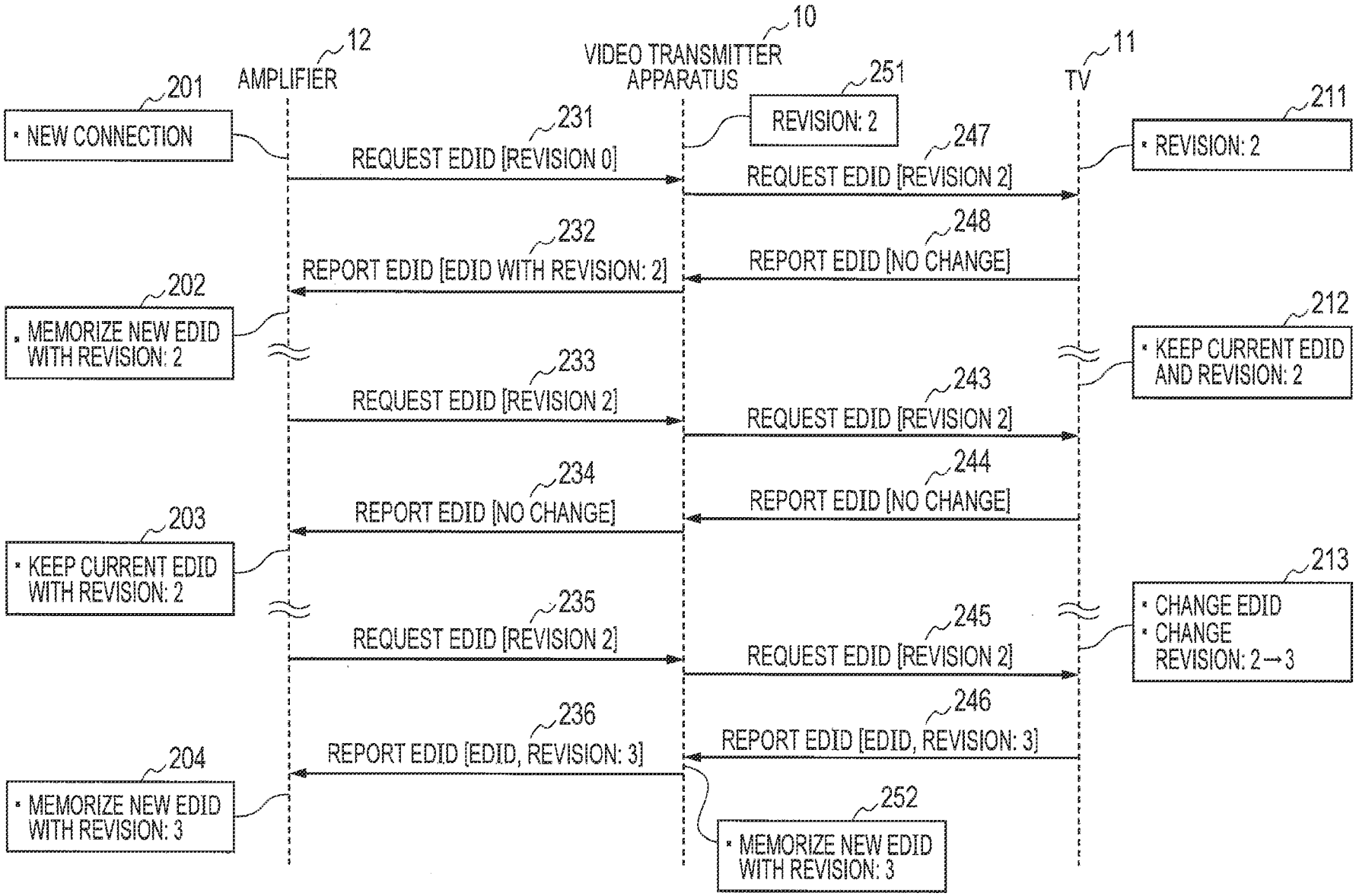
FIG. 5



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Docket No.: 093265-0106
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Nobuaki KABUTO et al.	:	Customer Number: 20277
Application No.: Not Yet Assigned (Continuation of U.S. Patent Application No. 12/783,329)	:	Confirmation No.: Not Yet Assigned
Filed: February 23, 2023	:	Art Unit: Not Yet Assigned
For: VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER	:	Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

The documents cited in the attached form PTO/SB/08 are not supplied because they were previously cited by or submitted to the Office in prior application U.S. Serial No. 12/783,329 on May 19, 2010, and relied upon in this application for an earlier filing date under 35 U.S.C. § 120.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 50-0417, under Order No. 093265-0106.

Respectfully submitted,

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SPECIFICATION

TITLE OF THE INVENTION

VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS

This application relates to and claims priority from Japanese Patent Application No. 2009-158361 filed on July 3, 2009, the entire disclosure of which is incorporated herein by reference.

BACKGROUND OF THE INVENTION

The present invention relates to a video transmitter apparatus and a video receiver apparatus being able to communicate with equipment at connection by using an interface, such as, on a radio or wireless.

As an interface for conducting signal transmission between a video transmitter apparatus, such as, a HDD (Hard Disc Drive) recorder, a STB (Set Top Box), etc., and a video receiver apparatus, such as, a TV, a monitor, a projector, etc., is already known a HDMI (High-Definition Multimedia Interface:®), for example. Within the system applying the HDMI® therein, the video transmitter apparatus reads the receiver apparatus information indicating the capacity and/or the specification of the video receiver apparatus (for example, EDID (Extended Display Identification Data)), when transmitting a video signal from the video transmitter apparatus to the video receiver apparatus, and thereby it is possible for the video transmitter apparatus to transmit video/audio signals of a format, which is suitable for a capacity and/or a specification of the video receiver apparatus.

In this EDID are described the followings; i.e., a physical

address, which is defined under the HDMI ® regulation, for example, and a display delay-time, etc., and there are cases where this physical address changes depending on structures of connecting the equipments to the video receiver apparatus and the video transmitter apparatus, and the display delay-time changes depending on a signal processing method of the video receiver apparatus. For this reason, the video transmitter apparatus needs to read out, appropriately, depending on change of EDID of the video receiver apparatus; however, there is a problem of a transmission delay and/or a transmission capacity within an interface, such as, a wireless connection, etc., there are cases where the EDID cannot be read out quickly.

As the conventional arts for dissolving the problems relating to the transmission delay and the transmission capacity within the wireless interface are already known those, which are described in the following Patent Documents 1 and 2, for example.

In the Patent Document 1 is described that, for a source (i.e., the video transmitter apparatus) to read out EDID of a display (i.e., the video receiver apparatus), quickly, a master simulator on the display (the video receiver apparatus) side executes polling on change of a slave (i.e., EDID), continuously, so as to maintain the present condition within a shadow memory within a slave simulator on a source (i.e., the video transmitter apparatus) side, and thereby a readout process from a master (i.e., the video transmitter apparatus) can be executed directly, from the shadow memory of the slave simulator, but without detecting a wireless rink.

Also, in the Patent Document 2 is described, when it is change relating to the EDID information, data of a corresponding item of the EDID information, which is stored within a rewritable memory, is rewritten corresponding to that change, and in addition thereto, an ID unique to a product within that EDID information is rewritten, and the EDID information stored within the rewritable memory is

transmitted to a personal computer through a DDC communication function.

<Prior Art Documents>

<Patent Documents>

[Patent Document 1] Japanese PCT Publication No. 2006-519549 (2006); and

[Patent Document 2] Japanese Patent Laying-Open No. 2000-194346 (2000).

BRIEF SUMMARY OF THE INVENTION

In case of applying a video interface, such as, on a radio or wireless, etc., having transmission delay and being insufficient on communication capacity thereof, it is preferable to obtain the receiver apparatus information within a time-period, being as short as possible, when needing the receiver apparatus information, such as, the EDID of the video transmitter apparatus and the video receiver apparatus, etc., and thereby to reduce an influence upon the video transmission while avoiding the communication of the receiver apparatus information when the receiver apparatus information is not needed.

However, with a method of transmitting the change of EDID to the source side, periodically, as is described in the Patent Document 1 mentioned above, there is necessity of executing the periodical EDID transmission, continuously, processes are generated, periodically, even when the EDID information is not necessary on the video transmitter apparatus side. Also, within that described in the Patent Document 2, there is an advantage that it is possible to detect presence/absence of change in the EDID information by only reading out the ID unique to the product; however, there is a case of losing the identification information,

as being the ID unique to the product, originally.

An object of the present invention, being accomplished by taking the drawbacks mentioned above into the consideration thereof, is to provide a technology for enabling to obtain the receiver apparatus information suitable for a case when the apparatus information of the video receiver apparatus changes, where the video transmitter apparatus and the video receiver apparatus are connected with, through a wireless interface.

According to the present invention, for accomplishing the object mentioned above, a memory portion for memorizing a history number, which is altered depending on changes of receiver apparatus information of itself, is provided within a video receiver apparatus, while within a video transmitter apparatus is provided a memory portion for memorizing the receiver apparatus information form said video receiver apparatus and said history number thereof, when said video transmitter apparatus obtains the newest receiver apparatus information of said video receiver apparatus, it transmits the history number memorized in the memory portion of the video transmitter apparatus to the video receiver apparatus, while the video receiver apparatus compares between the history number transmitted from the video transmitter apparatus and the history number of itself, which is memorized in the memory portion thereof, wherein the newest receiver apparatus information and the newest history number (i.e., the history number memorized in a first memory portion) to the video transmitter apparatus.

According to the structure of the present invention, since the video receiver apparatus transmits the newest receiver apparatus information to the video transmitter apparatus, when the history number from the video transmitter apparatus differs from, it is possible to bring an amount or volume of transmission for connecting between the video transmitter apparatus and the video receiver apparatus, down to the minimum. Therefore, according to the present invention, it is possible to obtain the receiver

apparatus information, suitably in case when the apparatus information of the video receiver apparatus is changed.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING

Those and other objects, features and advantages of the present invention will become more readily apparent from the following detailed description when taken in conjunction with the accompanying drawings wherein:

Fig. 1 is a configuration view of a system, wirelessly connecting a video transmitter apparatus and a video receiver apparatus, according to an embodiment of the present invention;

Fig. 2 is a view for showing an example of information, which is memorized in a memory portion of the video receiver apparatus, according to the embodiment of the present invention;

Fig. 3 is a view for showing an example of a flowchart for showing communication steps between the video transmitter apparatus and the video receiver apparatus, according to the embodiment of the present invention;

Fig. 4 is a view for showing other example of a flowchart for showing communication steps between the video transmitter apparatus and the video receiver apparatus, according to the embodiment of the present invention; and

Fig. 5 is a view for showing further other example of a flowchart for showing communication steps between the video transmitter apparatus and the video receiver apparatus, according to the embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Hereinafter, embodiments according to the present invention

will be fully explained or mentioned by referring to the attached drawings.

Fig. 1 attached is a configuration view for showing an example of a system, according to an embodiment of the present invention, wherein a video transmitter apparatus 10 is connected with a TV 11 and an amplifier 12, each being a video receiver apparatus, through a wireless interface. Herein, the video transmitter apparatus 10 may be, for example, a HDD player or a DVD player, etc., and it has s signal source 101, a transmitter/receiver portion 102 for transmitting/receiving video/audio signals and a control signal, a memory portion 103, and a CPU 104.

On the other hand, the TV 11, being the video receiver apparatus, has a transmitter/receiver portion 111 for transmitting/receiving video/audio signals and a control signal, a video signal processor 112, a display portion 113, an audio delay or latency portion 114, an audio signal processor 115, a speaker 116, a CPU 117 and a memory portion 118. Also, the amplifier 12 has a transmitter/receiver portion 121 for transmitting/receiving video/audio signals and a control signal, an audio delay or latency portion 124, an audio signal processor 125, a speaker 126, a CPU 127 and a memory portion 128.

With the present embodiment, in the system having such structures as mentioned above, history information, indicating a renewal history (i.e., version information) of that receiver apparatus information together with the receiver apparatus information, is memorized into the memory portion 118 of the video receiver apparatus, and this receiver apparatus information and the history information are transmitted to the video transmitter apparatus 10, to be memorized in the memory portion 103. And, it is characterized in that, when the video transmitter apparatus 10 obtains new (i.e., being changed) receiver apparatus information, within the video receiver apparatus, the history information, which is memorized within the memory portion 103 of the video transmitter

apparatus 10, and the history information, which is memorized in the memory portion 118 of the video receiver apparatus, are compared with, and when they are inconsistent with, new receiver apparatus information is transmitted to the video transmitter apparatus 10. First of all, explanation will be given, hereinafter, on a mechanism of transmitting the video/audio signals within the present embodiment. However, in the embodiment shown below, since a numerical value, which is incremented every time when EDID is renewed, is used therein, then "history information" will be called as "history number".

Within the memory portion 118 of the TV 11 are memorized the followings; as is shown in Fig. 2, for example, a wireless ID and a history number, and the EDID indicating the capacity and/or the specification of that TV, as the receiver apparatus information. The EDID includes, for example, a product code of that TV 11 and/or video/audio formats receivable, video/audio latency, a colorimetry, etc. However, hereinafter, the receiver apparatus information will be called "EDID".

The TV 11 transmits or reports EDID memorized in the memory portion 118 to the video transmitter apparatus 10, via the transmitter/receiver portion 111 on the TV 11 side. The video transmitter apparatus 10 receives the EDID from the TV 11 with the transmitting/receiving function of the control signal within the transmitter/receiver portion 102, and memorizes all or a part of the EDID received, in the memory portion 103 within the video transmitter apparatus 10. The CPU 104 determines optimal video/audio transmission formats, by referring to a receiving capacity and a specification of the TV 11, which are described in the EDID memorized in the memory portion 103. And, the CPU 104 controls the signal source 101 in such that it produces a video signal and an audio signal corresponding to that video/audio formats determined. The video/audio signals outputted from the signal source 101 are transmitted from the transmitter/receiver portion 102, and are received by the transmitter/receiver portion

111 of the TV 11. The video/audio signals received by the transmitter/receiver portion 111 are reproduced on the display portion 113 and through the speaker 116, passing through the video signal processor 112 and the audio signal processor 115, respectively. When the video signal processor 112 uses therein a frame memory, etc., since it needs a time for video processing, there may be a possibility that reproduction of the video is delayed with respect to the audio reproduced from the speaker. For the purpose of compensating an amount of this vide delay or latency, delay or the latency of the video accompanying with video processing within the video signal processor 112 may be compensated, and video and audio may be synchronized with, by entering the audio latency portion 114 therein. However, the memory portions 118 and 103 are connected with the transmitting/receiver portions 111 and 102 via the CPUs 117 and 104, respectively; however, the EDID may be transmitted/received, by connecting them directly, not passing through the CPUs.

Also, in the place of the speaker built within the TV 11, high quality sound may be reproduced by means of the amplifier 12. In this case, the amplifier 12 transmits or reports the EDID indicating the receiving capacity and/or the specification of that amplifier 12, which is/are memorized in the memory portion 128, passing through the transmitter/receiver portion 121 on the amplifier 12b side to the video transmitter apparatus 10. The video transmitter apparatus 10 receives the EDID from the amplifier 12 by the function of the transmitting/receiving portion 102 for transmitting/receiving the control signal(s), and memorizes all or a portion of the EDID received into the memory portion 103 within the video transmitter apparatus 10. The CPU 104 determines the optimal audio transmission format, by referring the receiving capacity and the specification of the amplifier 12, which are described in the EDID memorized in the memory portion 103. And, the CPU 104 controls the signal source 101 so as to produce the audio signal corresponding to the audio format that is determined. The audio signal outputted from the signal source 101 is transmitted

from the transmitting/receiving portion 102, and it received by the transmitter/receiver portion 121 of the amplifier 12. The audio signal transmitted/received by the transmitter/receiver portion 121 is delayed by a time-period to be taken by the video processing within the video signal processor 112, depending on necessity thereof, by means of the audio latency portion 124. Thereafter, for example, a surround process, etc., is treated, depending on necessity thereof, within the audio signal processor 125, and the sound is reproduced by one (1) or plural numbers of speakers, which is/are connected with the amplifier 12. However, although the memory portion 128 is connected with the transmitter/receiver portion 121 passing through the CPU 127, the EDID may be transmitted/received directly, not passing through the CPU, by connecting the transmitter/receiver portion 121 and the transmitting/receiving portion 102.

The delay time mentioned above can be changed depending on contents of the video processing corresponding to a display mode of the TV 11. For example, in case of a mode displaying a signal of 60 Hz in the frame rate after converting into that of 240 Hz, much time is necessary to be produced for the video processing of such the conversion. On the other hand, it is so determined that no frame rate conversion mentioned above is executed for the purpose of preventing the video display from being delayed responding to the operation thereof, in case of "a game mode" for displaying the video signal from a game machine, and in the case of this mode, the delay time is shorten.

The EDID mentioned above includes so-called real time information therein, which changes depending on a connecting structure and/or a video processing content (a display mode) of equipment, such as, the physical address mentioned above and/or the delay time (or latency) of video/audio, etc. For this reason, the video transmitter apparatus 10 needs to confirm on whether the EDID memorized in that memory portion 103 is a newest one or not. For such purpose thereof, within the present embodiment, a

revision value is given to the EDID, in advance, for the video receiving apparatus, such as, the TV 11 or the amplifier 12. With such a revision value, an initial value thereof is "0", for example, and it is executed with renewal, such as, increasing by one (1), for example, every time when the content of EDID is changed, etc. When the video transmitter apparatus 10 needs the newest EDID (when obtaining), the video transmitter apparatus 10, after giving the revision value memorized in the memory portion 103, transmits or reports a request for obtaining the EDID to the video receiver apparatus. The video receiver apparatus makes comparison between the revision value from the video transmitter apparatus 10 and the revision value memorized in the memory portion 103 of the video receiver apparatus, and in case where they are inconsistent with, thus, only when changing is made, the (changed) EDID is transmitted from the video receiver apparatus to the video transmitter apparatus. With this, it is possible to delete the EDID transmission in many cases when no renewal is made. Since a relatively large transmission capacity is needed for the transmission of EDID, there may be a possibility that a necessary transmission capacity cannot be ensured or maintained for transmitting the video/audio signals when transmitting the EDID (i.e., the transmission capacity is divided for the EDID transmission, for the video/audio signals). However, according to the present embodiment, since no EDID is transmitted to the video receiver apparatus when no change is made on the EDID, there can be obtained an effect of avoiding influences upon the video/audio transmission.

Explanation will be given, hereinafter, upon a detailed example of a method of confirming and obtaining the newest EDID, with using the revision value in relation to the present embodiment, by referring to Fig. 3. This Fig. 3 is a flowchart for showing communication messages between the video transmitter apparatus 10, according to the present embodiment, and the video receiver apparatus 11, such as, the TV, etc., and also changes of the contents memorized within the respective memory portions 103 and 118.

When the video transmitter apparatus 10 is connected with the video receiver apparatus (herein, the TV 11 is the example), firstly (a new connection condition 201), since there is no EDID memorized in the memory portion 103 of the video transmitter apparatus 10, a message 221 is transmitted to the video receiver apparatus 11, for requesting to obtain the EDID, which is added with the revision value "0". This message 221 may be transmitted, periodically. Preferably, the revision value "0" may be used as a meaning of no EDID memorized. On the other hand, the video receiver apparatus 11 sets up the revision value, for example "2", other than "0", in advance, within the memory portion 118 (condition 211). The CPU 117 of the video receiver apparatus 11 reads out the revision value, which is memorized in the memory portion 118, and compares it with the revision value, which is added to the message 221 for requesting to obtain the EDID from the video transmitter apparatus 10. The CPU 117 determines that both are inconsistent with, since the revision value from the video transmitter apparatus 10 differs from the revision value, which is shown in the condition 211 of the memory portion 118, and it makes determination that there is necessity of transmitting the EDID to the video transmitter apparatus 10. And, the CPU 117 controls the transmitter/receiver portion 111, in such that the EDID memorized in the memory portion 118, and also renewal information thereof, the revision value "2", are transmitted to the video transmitter apparatus 10. The video transmitter apparatus 10 receives the EDID and "2" of the revision value, which are transmitted from the video receiver apparatus 11 by the transmitter/receiver portion 102 thereof, and the CPU 104 makes the memory portion 103 memorize the EDID and the revision value received memorized therein (condition 202).

Thereafter, when the video transmitter apparatus 10 needs a newest EDID, the CPU 104 of the video transmitter apparatus 10 controls the transmitter/receiver portion 102 in such that it reads out the revision value "2", which is memorized in the memory portion 103 thereof, to be added to an EDID requesting message 223, and

thereby to transmit or report this to the video receiver apparatus 11. Upon receipt of the EDID requesting message and the revision value "2" from the video receiver apparatus 11 by the transmitter/receiver portion 111 of the video receiver apparatus 11, further the CPU 117 reads out the revision value, which is memorized in the memory portion 118 of the video receiver apparatus 11 at present, and compares it with the revision value received. Since the revision value is "2" as it is, without change in the EDID memorized in the memory portion 118 (condition 212), and since it is coincident or consistent with the revision value, which is added to the EDID requesting message 223 received, then the CPU 117 controls the transmitter/receiver portion 111 in such that it transmits or reports a message 224 indicating that there is no change in the EDID to the video transmitter apparatus 10. The message 224 indicating that there is no change in the EDID is received by the transmitter/receiver portion 102, and upon basis of the message received, the CPU 104 of the video transmitter apparatus maintains the condition 203 memorized in the memory portion 103 (i.e., no change in the EDID), and uses the EDID memorized in that memory portion 103 as the newest EDID.

In case when the video transmitter apparatus 10 needs the newest EDID, again, the CPU 104 adds the revision value "2" memorized in the memory portion 103 to a message 225 requesting to obtain EDID, so as to transmit or report it to the video receiver apparatus 11 by the transmitter/receiver portion 102, and it is received by the transmitter/receiver portion 111 of the video receiver apparatus. Herein, it is assumed that, within the video receiver apparatus 11, the EDID thereof is changed, for example, by change of connecting structure of the equipment to the video receiver apparatus 11 (for example, a DVD player is newly connected to the TV 11, etc.), before receiving that message 225. In this case, the CPU 117 changes the revision value, which is memorized in the memory portion 118 of the video receiver apparatus 11 (i.e., "2" before change of EDID), to "3", by increasing it by "1" (condition 213). As a result thereof, the revision value of the video receiver

apparatus 11 under that condition differs from the revision value "2" of the EDID requesting message 225 received by the transmitter/receiver portion 111. As a result thereof, the CPU 117 of the video receiver apparatus 11 reads out the newest EDID and the revision value "3", which are changed, and transmits or reports them to the video transmitter apparatus 10 by means of the transmitter/receiver portion 111. The video transmitter apparatus 11 receives that newest EDID and the revision value "3" by the transmitter/receiver portion 102, and further memorizes the EDID and the revision value, which are received, into the memory portion 103 by means of the CPU 104 (i.e., rewriting the data of the memory portion 103) (condition 204). Hereinafter, within the video receiver apparatus 11 are executed various controls, such as, production of video/audio signals, etc., with using the EDID corresponding to the revision value "3", which is memorized in the memory portion 103, until the EDID of the video receiver apparatus 11 is changed, again.

In this manner, the revision value is increased, one by one, and when it reaches to the maximum value (for example, 255), it is preferable to increase it, sequentially, from "1", but jumping "0" indicating no memory. Also, in case where there is no effective EDID data because of any reason, it is also possible that the video receiver apparatus transmits or reports the revision value "0" omitting the EDID.

As was mentioned above, since transmission of the EDID is generated only when the video transmitter apparatus needs the newest EDID and in case where the revision value differs, it is possible lower the transmission capacity and the transmission time necessary for the EDID communication down to the minimum.

Also, in addition to the revision value, comparison may be made in common, also upon a character data of the EDID, such as, a check sum included in the EDID, etc., to use the EDID memorized in the memory portion 103 of the video transmitter apparatus 10,

only when both the revision value and the character data are consistent with, while no EDID is transmitted from the video receiver apparatus when either one of them is inconsistent with; thereby increasing the reliability of that data. Since the check sum within the EDID lies in each block, then the revision value may be also given for each block, so as to execute data comparison for each block. As the character data may be used a CRC (Cyclic Redundancy Check) or a hash function, etc.

Further, with conducting estimation, in common with, upon the consistence/inconsistence of a wireless ID, which is used when establishing the communication network of the radio, etc., it is possible to expect a further increase of the reliability thereof. In more details, while memorizing the wireless ID of the video receiver apparatus in the memory portion 103 of the video transmitter apparatus 10, in advance, comparison is made between the wireless ID of the video receiver apparatus 11 memorized and the wireless ID of the video receiver apparatus, which is designated as a destination of transmission of the EDID request message, within that video transmitter apparatus 10. This can be achieved by transmitting or reporting the revision value "0" indicating that there is no EDID memorized within the video transmitter apparatus 10 to the video receiver apparatus 11, when they are inconsistent with.

In the example mentioned above, it is the case where the video transmitter apparatus 10 reads therein the EDID of the TV 11, being the video receiver apparatus; however, the similar processes or steps can be applied in case where the amplifier 12, being another video receiver apparatus, reads the EDID of the TV 11 therein. For example, in the example shown in Fig. 1, when reproducing the sound by the amplifier while muting the sound of the TV 11 (i.e., when outputting the audio by the speaker 126, which is connected with the amplifier, in the place of the speaker 116 built within the TV 11), the video delay amount of the TV 11 mentioned above may be obtained as the EDID of the TV 11, and thereby

delaying the audio within the audio latency portion 124 by an amount of the video delay obtained. With doing in this manner, it is effective for synchronizing the audio output of the amplifier 12 and the video display on the display portion 112 of the TV 11, when outputting the audio by means of the amplifier 12.

Fig. 4 is a flowchart for showing the communication messages among three (3); i.e., the amplifier 12 - the video transmitter apparatus - the TV 11, and changes of memory contents of the memory portions 128 and 118, respectively. Herein, it is assumed that the memory portion 128 of the amplifier 12 has a function similar to that of the memory portion 103 of the video transmitter apparatus 10. The EDID request message and the EDID transmit message are transmitted or reported from the transmitting/receiving function portion for the control signals within the transmitter/receiver portion 121 of the amplifier 12, passing through the transmitting/receiving function portion for the control signals within the transmitter/receiver portion 102 of the video transmitter apparatus 10, to the transmitting/receiving function portion for the control signals within the transmitter/receiver portion 111 of the TV 11. The communication message from the TV 11 to the amplifier 12 is also transmitted or reported passing through the video transmitter apparatus 10, in the similar manner to that mentioned above. Other than the communication message relay function by means of the video transmitter apparatus 10, they are same to the communications of the EDID and the message and the revision value between the video transmitter apparatus 10 and the TV 11 shown in Fig. 3. Thus, it is enough to read, the processes similar to those, which are executed by the CUP 104, the transmitter/receiver portion 102 and the memory portion 103 of the video transmitter apparatus 10, explained in Fig. 3, are executed, in the place thereof, by the CPU 127, the transmitter/receiver portion 121 and the memory portion 128 of the 12, in Fig. 4. In this example, there is no necessity of memorizing all EDID of the TV 11 into the memory portion 128, which are received by the transmitter/receiver portion 121 of the

amplifier 12, and it is also possible to memorize only the information, for example, relating to the video delay amount.

In the example shown in Fig. 4, though the video transmitter apparatus 10 executes only the role or function of relaying the communication between the amplifier 12 and the TV 11, but may have a function other than that. For example, the video transmitter apparatus 10 may transmit or report, together with the EDID request message, the revision value, being replaced by a newer revision value than that the memory portion 103 has therein, in the place of the revision value received from the amplifier 12, if the revision value that the memory portion 103 thereof has is newer than the revision value received from the amplifier 12 (i.e., a numeral of the revision value that the memory portion 103 has therein is large), when transmitting or reporting the EDID request message attached with the revision value, which is received from the amplifier 12, to the TV 11. An example of that will be shown in a flowchart shown in Fig. 5. If the EDID request message attached with the revision value "0" comes or arrives from the amplifier 12, when the revision value that the memory portion 103 of the video transmitter apparatus 10 has therein is "2" (condition 251), the CPU 104 of the video transmitter apparatus 10 determines that the revision value that the video transmitter apparatus has therein is new, and then the EDID request message 247 attached with the revision value "2" that the memory potion 103 has therein is transmitted to the TV 11 by means of the transmitter/receiver portion 102. Also, the video transmitter apparatus 10 has no necessity of transmitting or reporting all of the EDID received from the TV 11 to the amplifier 12, and it is also possible to transmit or report only the information, for example, relating to the video delay or latency amount.

The CPU 117 of the TV 11 compares between the revision value received and the revision value "2" that the memory portion 118 of the TV 11 has therein, and since both are equal to each other, then it turns a message 248 indicating no change of EDID back to

the video transmitter apparatus 10 through the transmitter/receiver portion 11. The video transmitter portion 10, receiving the message 248 indicating no change of EDID, transmits or reports the EDID, which the memory portion 103 has, and the revision value "2", to the amplifier 12 by means of the EDID message. The amplifier 12 receives this EDID message 232 by the transmitter/receiver portion 121, and memorizes all or a portion of the EDID received into the memory portion 128 (condition 202). In this manner, with replacing the revision value from the amplifier 12 by the new revision value, which relay equipment (in this example, the video transmitter apparatus 10) has, there can be obtained an advantage of suppressing an amount or volume of communication between the TV 11 and the video transmitter apparatus 10.

Also, when the video transmitter apparatus 10 receives the new EDID and the message 246 from the TV 11, the EDID of the memory portion 103 of the video transmitter apparatus 10 and the revision value are renewed (condition 252), and thereby there can be obtained an advantage of reducing the message relating to EDID between the video transmitter apparatus 10 and the TV 11, and minimize the transmission capacity and/or the transmission time.

Though the explanation was give on the EDID, as the example of the receiver apparatus information; however it should not be limited to the EDID, but may be information unique to the video receiver apparatus, such as, a power consumption, a brightness of screen, a time to be used, etc. Also, with the embodiment mentioned above, the explanation was given on the TV and the amplifier, as the video receiver apparatus, as the example thereof; however, the present invention should not be restricted to this, of course, and it is needless to say that it may be other equipments or apparatuses.

The present invention may be embodied in other specific forms without departing from the spirit or essential feature or

characteristics thereof. The present embodiment(s) is/are therefore to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than by the forgoing description and range of equivalency of the claims are therefore to be embraces therein.

What is claimed is:

1. A video receiver apparatus, for receiving video from a video transmitter apparatus, comprising:

a memory portion, which is configured to memorize receiver apparatus information of said video receiver apparatus; and

a transmitter/receiver portion, which is configured to receive a request for obtaining said receiver apparatus information transmitted from said video transmitter apparatus, and also to transmit the receiver apparatus information memorized in said memory portion responding to said obtaining request, wherein

within said memory portion is memorized further history information, changing depending on alternation of said receiver apparatus information, and

said receiver portion is able to receive the history information, which said video transmitter apparatus holds therein, as well as, said obtaining request from said video transmitter, and when the received history information from said video transmitter apparatus and the history information, which said video transmitter apparatus holds therein, are inconsistent with each other, said receiver apparatus information memorized in said memory portion is transmitted to said video transmitter apparatus.

2. The video receiver apparatus, as described in the claim 1, wherein a message indicating there is no alternation of said receiver apparatus information is returned to said video transmitter apparatus, without transmitting said receiver apparatus information, when the history information received from said video transmitter apparatus and the history information memorized in said memory portion are consistent with each other.

3. The video receiver apparatus, as described in the claim 1, wherein a predetermined history information is determined not

be used in alternation of said revision value, and the history information are always inconsistent with, when said transmitter/receiver portion receives the predetermined history information from said video transmitter apparatus.

4. The video receiver apparatus, as described in the claim 1, wherein said receiver apparatus information is EDID, and said transmitter/receiver portion receives character data of said EDID, in addition to said history information, and returns a signal indicating there is no alternation of EDID to said video transmitter apparatus, when both the history information received and the character data are consistent with the history information and said character data, which are memorized in said memory portion.

5. The video receiver apparatus, as described in the claim 1, wherein it receives video on a radio from said video transmitter apparatus.

6. A video transmitter apparatus, for transmitting video to a video receiver apparatus, comprising:

a transmitter/receiver portion, which is configured to transmit a request for obtaining receiver apparatus information of said video receiver apparatus to said video receiver apparatus, being a destination of video transmission by said video transmitter apparatus, and also to receive the receiver apparatus information of said video receiver apparatus and history information of said receiver apparatus information; and

a memory portion, which is configured to memorize said receiver apparatus information and said history information, which are received by said transmitter/receiver portion, wherein

said transmitter/receiver portion transmits the request for obtaining said receiver apparatus information, as well as, said history information memorized in said memory portion, to said video receiver apparatus.

7. The video transmitter apparatus, as described in the claim 6, wherein

said transmitter/receiver portion is able to receive a message transmitted from said video receiver apparatus responding to said history information transmitted by said transmitter/receiver portion,

when said message indicates that said history information transmitted is consistent with the history information held by said video receiver apparatus, said transmitter/receiver portion produces said video with using the receiver apparatus information memorized in said memory portion, and

when said message indicates that said history information transmitted is inconsistent with the history information held by said video receiver apparatus, said transmitter/receiver portion rewrites memory data of said memory portion by new receiver apparatus information and revision value, which are transmitted from said video receiver apparatus, and thereby producing said video with using said new receiver apparatus information rewritten.

8. The video transmitter apparatus, as described in the claim 6, wherein said transmitter/receiver portion transmits a predetermined revision value together with said obtaining request, and receives the message indicating said inconsistence and said receiver apparatus information, when no receiver apparatus information is memorized in said memory portion, and when said video receiver apparatus is connected with, first.

9. The video transmitter apparatus, as described in the claim 6, wherein said receiver apparatus information is EDID, and said transmitter/receiver portion transmits character data of the EDID, in addition to said revision value.

10. The video transmitter apparatus, as described in the claim 7, wherein it transmits video on a radio to said video receiver apparatus.

11. A video receiver apparatus, for receiving either video or audio from a video transmitter apparatus, comprising:

a transmitter/receiver portion, which is configured to receive a request for obtaining receiver apparatus information owned by other video receiver apparatus, which is connected with said video transmitter apparatus, and also to receive the receiver apparatus information owned by said other video receiver apparatus and renewal information thereof; and

a memory portion, which is configured to memorize at least a part of the receiver apparatus information owned by said video receiver apparatus and history information thereof, which are received by said transmitter/receiver portion, wherein

said transmitter/receiver portion transmits a request for obtaining said receiver apparatus information, and said history information memorized in said memory portion, as well.

12. The video receiver apparatus, as described in the claim 11, wherein

said transmitter/receiver portion is able to receive a message, which is transmitted from said other video receiver apparatus responding to said history information transmitted by said transmitter/receiver portion,

the receiver apparatus information memorized in said memory portion is used, when said message indicates that said history information transmitted and the history information held by said video receiver apparatus are consistent with each other, and

memory data of said memory portion is re-written by new receiver apparatus information and history information, which are transmitted from said other video receiver apparatus, when said message indicates that said history information transmitted and the history information held by said video receiver apparatus are inconsistent with, whereby using the new receiver apparatus

information re-written.

13. The video receiver apparatus, as described in the claim 11, wherein

said transmitter/receiver portion transmits the request for obtaining said video receiver apparatus information and said history information, passing through said video receiver apparatus, and further receives said receiver apparatus information and the history information thereof, and also said message, passing through said video transmitter apparatus.

14. A video transmitting method, within a video transmitter apparatus for transmitting at least either video or audio signal, at least to first and second video receiver apparatuses, comprising the following steps of:

Transmitting a request for obtaining receiver apparatus information owned by said second video receiver apparatus, which is received from said first video receiver apparatus; and

Transmitting at least a part of the receiver apparatus information owned by said second video receiver apparatus, which is received from said second video receiver apparatus.

ABSTRACT OF THE DISCLOSURE

A video receiver apparatus, for receiving video from a video transmitter apparatus, comprises: a memory portion for memorizing receiver apparatus information of the video receiver apparatus; and a transmitter/receiver portion for receiving a request for obtaining the receiver apparatus information transmitted from the video transmitter apparatus, and also for transmitting the receiver apparatus information memorized in the memory portion responding to the obtaining request, and wherein, further within the memory portion is memorized history information, changing depending on alternation of the receiver apparatus information, and wherein the receiver portion is able to receive the history information, which the video transmitter apparatus holds therein, as well as, the obtaining request from the video transmitter, and when the received history information from the video transmitter apparatus and the history information, which the video transmitter apparatus holds therein, are inconsistent with each other, then the receiver apparatus information memorized in the memory portion is transmitted to the video transmitter apparatus.

Docket No.: 093265-0106
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Nobuaki KABUTO et al.	:	Customer Number: 20277
Application No.: Continuation of U.S. Application No. 12/783,329	:	Confirmation No.: N/A
Filed: February 23, 2023	:	Art Unit: N/A
For: VIDEO TRANSMITTER APPARATUS AND VIDEO RECEIVER APPARATUS	:	Examiner: Not Yet Assigned

PRELIMINARY AMENDMENT UNDER 37 C.F.R. § 1.115

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INTRODUCTORY COMMENTS

Prior to examination on the merits, please amend the above-identified U.S. patent application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks/Arguments begin on page 5 of this paper.

AMENDMENTS TO THE SPECIFICATION

Please amend the following paragraph after the Title and before the "Background of the Invention"

-- CROSS-REFERENCE OF RELATED APPLICATIONS

This application is a continuation of U.S. Application No. 12/783,329, filed May 19, 2010, which relates to and claims priority from Japanese Patent Application No. 2009-158361 filed on July 3, 2009, the entire disclosure of which is incorporated herein by reference. --

AMENDMENTS TO THE CLAIMS

1–5. (Cancelled)

6. (Original) A video transmitter apparatus, for transmitting video to a video receiver apparatus, comprising:

a transmitter/receiver portion, which is configured to transmit a request for obtaining receiver apparatus information of said video receiver apparatus to said video receiver apparatus, being a destination of video transmission by said video transmitter apparatus, and also to receive the receiver apparatus information of said video receiver apparatus and history information of said receiver apparatus information; and

a memory portion, which is configured to memorize said receiver apparatus information and said history information, which are received by said transmitter/receiver portion, wherein

said transmitter/receiver portion transmits the request for obtaining said receiver apparatus information, as well as, said history information memorized in said memory portion, to said video receiver apparatus.

7. (Original) The video transmitter apparatus, as described in the claim 6, wherein

said transmitter/receiver portion is able to receive a message transmitted from said video receiver apparatus responding to said history information transmitted by said transmitter/receiver portion,

when said message indicates that said history information transmitted is consistent with the history information held by said video receiver apparatus, said transmitter/receiver portion produces said video with using the receiver apparatus information memorized in said memory portion, and

when said message indicates that said history information transmitted is inconsistent with the history information held by said video receiver apparatus, said transmitter/receiver portion rewrites memory data of said memory portion by new receiver apparatus information and revision value, which are transmitted from said video receiver apparatus, and thereby producing said video with using said new receiver apparatus information rewritten.

8. (Original) The video transmitter apparatus, as described in the claim 6, wherein said transmitter/receiver portion transmits a predetermined revision value together with said obtaining request, and receives the message indicating said inconsistence and said receiver apparatus information, when no receiver apparatus information is memorized in said memory portion, and when said video receiver apparatus is connected with, first.

9. (Original) The video transmitter apparatus, as described in the claim 6, wherein said receiver apparatus information is EDID, and said transmitter/receiver portion transmits character data of the EDID, in addition to said revision value.

10. (Original) The video transmitter apparatus, as described in the claim 7, wherein it transmits video on a radio to said video receiver apparatus.

11-14. (Cancelled)

REMARKS

This application has been amended to add continuity information in the specification. Claims 1-5 and 11-14 have been cancelled. No new matter has been introduced. Entry of this amendment is respectfully requested.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 50-0417, under Order No. 093265-0106 from which the undersigned is authorized to draw.

Respectfully submitted,

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