

**UNITED STATES DISTRICT COURT
WESTERN DISTRICT OF TEXAS
WACO DIVISION**

CloudofChange, LLC,
Plaintiff,

v.

Clover Network, Inc.,
Defendant.

Case No. 6:22-cv-634-ADA

JURY TRIAL DEMANDED

**PLAINTIFF'S DISCLOSURE OF ASSERTED CLAIMS
AND PRELIMINARY INFRINGEMENT CONTENTIONS**

In accordance with the Standing Order Governing Proceedings – Patent Case, Plaintiff CloudofChange, LLC (“CloudofChange” or “Plaintiff”) makes the following disclosure of its asserted claims of U.S. Patent No. 9,400,640 (the “’640 Patent”), U.S. Patent No. 10,083,012 (the “’012 Patent”), U.S. Patent No. 11,226,793 (“’793 Patent”) concerning the infringing activities and products manufactured by Defendant Clover Network Inc. (“Clover” or “Defendant”).

CloudofChange’s disclosure is based upon publicly available information concerning the infringing activities and products. CloudofChange has received no discovery to date from Clover and certain information not yet available to CloudofChange may be relevant to its assertion of patent infringement. CloudofChange expressly reserves the right to supplement these Preliminary Infringement Contentions.

Subject to the above reservation of rights, CloudofChange makes the following disclosures:

INFRINGEMENT OF U.S. PATENT NO. 9,400,640, U.S. PATENT NO. 10,083,012, AND U.S. PATENT NO. 11,226,793.

I. Disclosure of Asserted Claims and Preliminary Contentions

A. Asserted Claims

Based upon information presently available to it, CloudfChange asserts that Clover has and/or continues to directly infringe and/or indirectly infringe, by active inducement and/or contributory infringement Claims 1, 3, 5-6, and 8-14 of the '640 Patent; Claims 1-2, 4, and 6-13 of the '012 Patent; and Claims 1-4, 9, 11, 42, and 44 of the '793 Patent.

B. Preliminary Infringement Contentions Claim Charts

CloudfChange's Preliminary Infringement claim chart of the '640 Patent is attached as Exhibits A to these disclosures, which sets forth where in the accused products each element of the asserted claim(s) are found.

As shown in Exhibit A, CloudfChange contends that each element of Claims 1, 3, 5-6, and 8-14 are literally present, including Claims 10 and 13 on information and belief.

To the extent that Defendant contends that certain elements are not literally present in the accused products, the elements are at least present under the Doctrine of Equivalents because the difference between the claims and Clover's infringement, if any, are insubstantial and the accused products perform substantially the same function, in substantially the same way, to achieve substantially the same result as the '640 Patent claims.

CloudfChange's Preliminary Infringement claim chart of the '012 Patent is attached as Exhibits B to these disclosures, which sets forth where in the accused products each element of the asserted claim(s) are found.

As shown in Exhibit B, CloudfChange contends that each element of Claims 1, 2, 4, 6-13 are literally present, including Claims 9 and 10 on information and belief.

To the extent that Defendant contends that certain elements are not literally present in the accused products, the elements are at least present under the Doctrine of Equivalents because the difference between the claims and Clover's infringement, if any, are insubstantial and the accused products perform substantially the same function, in substantially the same way, to achieve substantially the same result as the '012 Patent claims.

CloudfChange's Preliminary Infringement claim chart of the '793 Patent is attached as Exhibits C to these disclosures, which sets forth where in the accused products each element of the asserted claim(s) are found.

As shown in Exhibit C, CloudfChange contends that each element of Claims 1-4, 9, 11, 42, and 44 are literally present.

To the extent that Defendant contends that certain elements are not literally present in the accused products, the elements are at least present under the Doctrine of Equivalents because the difference between the claims and Clover's infringement, if any, are insubstantial and the accused products perform substantially the same function, in substantially the same way, to achieve substantially the same result as the '793 Patent claims.

C. Priority Date

For purposes of this litigation, the priority date for each asserted claim of the '640 Patent is February 5, 2008, the filing date of the '640 Patent.

For purposes of this litigation, the priority date for each asserted claim of the '012 Patent is February 5, 2008, the filing date of the '640 Patent.

For purposes of this litigation, the priority date of each asserted claim of the '793 Patent is February 5, 2008, the filing date of the '640 Patent.

II. Document Production Accompanying Disclosure

Pursuant to the Standing Order Governing Proceedings – Patent Case, Plaintiff CloudofChange identifies all documents, produced herewith, evidencing conception and reduction to practice for each claimed invention and a copy of the file history for each patent in suit: COCCLV0000001-COCCLV0001972.

Dated: September 30, 2022

Respectfully submitted,

By: /s/ John A. Yates

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CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing document was served on counsel of record on September 30, 2022.

/s/ John A. Yates
John A. Yates

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Exhibit A, Claim Chart for U.S. Pat. No. 9,400,640

Exhibit A

Exhibit A – Preliminary Infringement Chart for U.S. Patent No. 9,400,640

1. Clover POS System – Clover, Available at <https://www.clover.com/pos-systems>
 - a. Retrieved: June 12, 2022.
2. Clover Home Web Dashboard Overview – Clover, Available at <https://www.youtube.com/watch?v=tTSSFpUhZJ8>
 - a. Retrieved: June 12, 2022
3. Clover Shop – Clover, Available at <https://www.clover.com/shop>
 - a. Last visited on June 12, 2022.
4. Set up your Station Pro – Clover, Available at <https://www.clover.com/help/set-up-your-station-pro/>
 - a. Retrieved: June 12, 2022
5. Connect and activate your Station 2 – Clover, Available at <https://www.clover.com/help/set-up-your-mini>
 - a. Retrieved: June 12, 2022
6. Fix Network Connections – Clover, Available at <https://www.clover.com/help/fix-network-connections>
 - a. Retrieved: June 12, 2022
7. Business Tracking Reports – Clover, Available at <https://fortunepayments.com/clover-pos-business-tracking-reporting/>
 - a. Retrieved: June 12, 2022
8. Table Service – Clover, Available at <https://www.clover.com/pos-solutions/restaurant>
 - a. Retrieved: June 12, 2022
9. No Hardware – Clover, Available at <https://www.clover.com/no-hardware>
 - a. Retrieved: June 12, 2022
10. Restaurant Holiday Webinar – Clover, Available at <https://youtu.be/x4hCW5IVuIE>
 - a. Retrieved: June 12, 2022
11. Using Clover Web Dashboard – Clover, Available at <https://www.youtube.com/watch?v=xHiR9E3Awoc>
 - a. Retrieved: June 12, 2022
12. Clover Counter Service – Clover, Available at <https://nationalbankcard.com/business-types/counter-service-restaurants/>
 - a. Retrieved: September 29, 2022
13. Clover POS Shop – Clover, Available at <https://www.youtube.com/watch?v=JBly5KZhv5A>
 - a. Retrieved: September 29, 2022
14. Prepare Inventories and Menus – Clover, Available at <https://www.clover.com/help/prepare-to-work-with-inventories-and-menus?device=ZKF1GcCo6sus0GkgWw6ku>
 - a. Retrieved: On or before June 12, 2022
15. Manually Manage Item Availability – Clover, at Available at <https://www.clover.com/en-US/help/manually-manage-item-availability>

CloudfChange, LLC v. Clover Network Inc., Case No.: 6:22-CV-634-ADA
Exhibit A, Claim Chart for U.S. Pat. No. 9,400,640

- a. Retrieved: September 29, 2022
- 16. Set Up Offline Payments – Clover, Available at <https://www.clover.com/help/set-up-offline-payments>
 - a. Retrieved: September 29, 2022
- 17. Clover Tour For Retail – Clover, Available at <https://www.youtube.com/watch?v=zGAI-Cju4Ac>
 - a. Retrieved: September 29, 2022
- 18. Clover Retail Webinar – Clover, Available at https://youtu.be/002k57_Q4N0
 - a. Retrieved: September 29, 2022
- 19. Clover Table Service Restaurant Webinar – Clover, Available at <https://youtu.be/v7sBOQ66rYw>
 - a. Retrieved: September 29, 2022
- 20. Bagels And Brew – Clover, Available at <https://blog.clover.com/bagels-and-brew/>
 - a. Retrieved: September 29, 2022
- 21. Meet the Merchant – Clover, Available at <https://blog.clover.com/meet-the-merchant-la-gelati/>
 - a. Retrieved: September 29, 2022
- 22. POS Pricing – Clover, Available at <https://tech.co/pos-system/clover-pos-pricing>
 - a. Retrieved: September 29, 2022
- 23. Clover Asset Service Plans – Clover, Available at https://assets.ctfassets.net/3mu3dzz76r6a/34mDu5cGPXZo4LLIxADf8I/4ec87289d71c6fc8ee6c87af067739b9/Clover_service_plans_6_23_2020.pdf
 - a. Retrieved: September 29, 2022
- 24. Clover YouTube Ad – Clover, Available at <https://www.youtube.com/watch?v=rrjsma7Q7VU>
 - a. Retrieved: June 12, 2022
- 25. Square Versus Clover – Clover, Available at <https://tech.co/pos-system/square-vs-clover>
 - a. Retrieved: September 29, 2022

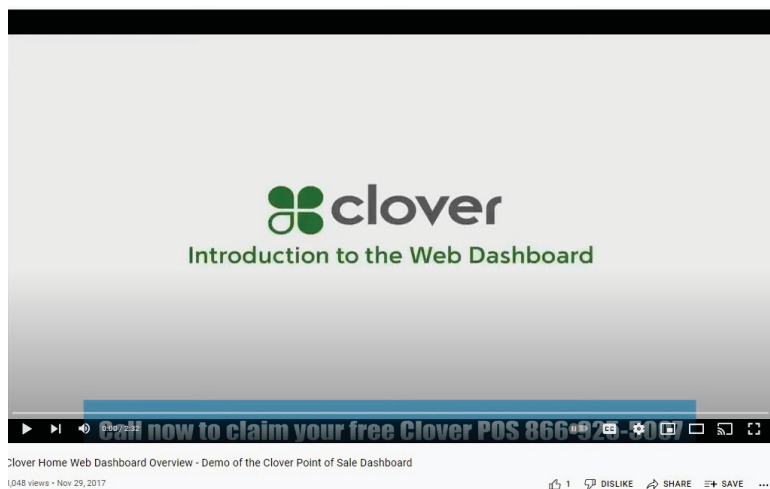
Claim Language	Accused Instrumentality: Clover POS System (including Clover Station Solo, Clover Station Duo (formerly Station Pro), Clover Mini, Clover Dashboard) (collectively, “Clover POS”)
<i>Claim 1</i>	
1. A web-based point of sale (POS) builder system comprising:	CloudfChange asserts that the preamble is not limiting. To the extent that the preamble is construed as limiting, Clover POS includes a web-based point of sale (POS) builder system. For example, Clover POS states that a “POS system should be tailored to your needs today and scale with your business. Build the system you need now, and expand as you grow with devices apps, and accessories.” <i>Source:</i> https://www.clover.com/pos-systems COMPLETELY CUSTOMIZABLE Your POS system should be tailored to your needs today and scale with your business. Build the system you need now, and expand as you grow with devices, apps, and accessories. <i>See also</i> “Accessible From Anywhere” at https://www.clover.com/pos-systems stating: “Clover’s point-of-sale software syncs with the cloud, so you can access your sales, refunds, deposit, and reports, wherever you are or need to be.” Last accessed on June 12, 2022.



ACCESSIBLE FROM ANYWHERE

Clover's point-of-sale software syncs with the cloud, so you can access your sales, refunds, deposits, and reports, wherever you are or need to be.

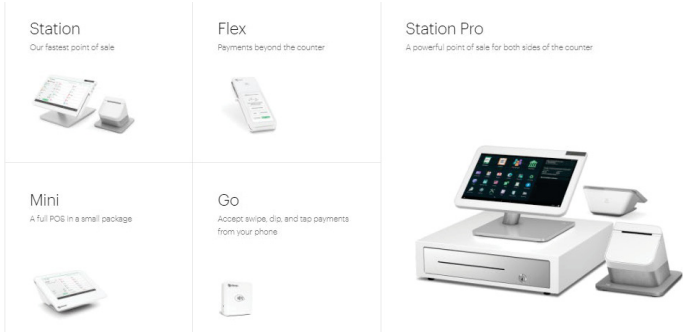
See also "Clover Home Web Dashboard Overview" at <https://www.youtube.com/watch?v=tTSSFpUhZJ8>



See also Clover Tour at: <https://www.youtube.com/watch?v=zGAI-Cju4Ac>

	<i>See also</i> Clover Enterprise Architecture: “Clover devices can connect to Clover’s servers via Wi-Fi, wired Ethernet, or 3G. Clover has 2 sets of redundant servers located at two separate Softlayer data centers in Texas. Both sets of servers have private direct connections to the Omaha and Chandler Rapid Connect gateways.” Network Layout <pre> graph LR subgraph Devices D1[Desktop] D2[Tablet] D3[Smartphone] end subgraph CDC [CLOVER DATA CENTERS] DCD[Clover Servers Softlayer Dallas] DCH[Clover Servers Softlayer Houston] DCD <--> Failover DCH end subgraph RG [Rapid Connect] R1[Rapid Connect Chandler] R2[Rapid Connect Omaha] end D1 -- "HTTPS mutual auth" --> DCD D2 -- "Wi-Fi" --> DCD D3 -- "Wired Ethernet*" --> DCD D3 -- "Wireless 3G**" --> DCD DCD -- "dedicated private link" --> R1 DCD -- "dedicated private link" --> R2 DCH -- "dedicated private link" --> R1 DCH -- "dedicated private link" --> R2 </pre> *Clover Mini and Clover Station only ** Select models only
one or more point of sale terminals, that display POS screens,	Clover POS includes one or more point of sale terminals, that display POS Screens For example, Clover POS includes:

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Exhibit A, Claim Chart for U.S. Pat. No. 9,400,640

	 Source: https://www.clover.com/shop. Last accessed on June 12, 2022.
an internet connection from said one or more point of sale terminals to a web server,	Clover POS includes an internet connection from said one or more point of sale terminals to a web server. For example, Clover POS includes:  ACCESSIBLE FROM ANYWHERE Clover's point-of-sale software syncs with the cloud, so you can access your sales, refunds, deposits, and reports, wherever you are or need to be. Source: https://www.clover.com/pos-systems. See also Set up your Station Pro at https://www.clover.com/help/set-up-your-station-pro/



The LAN Ethernet cable connects the completed assembly to your internet network.

See also id.

Connect your Station Pro to a network

Connect your Station Pro to the network after you assemble it. There are three ways to connect your Station Pro to a network: Ethernet (recommended), Mobile (SIM) card, and Wi-Fi.

If you plan to connect to a network using Wi-Fi, check to make sure your router is set up, connected to the network, and has a security level of WPA or WPA2. Your network needs to be a closed, protected, secure network to process payment transactions. If you offer Wi-Fi access to your customers, follow the best practice and give them a different Wi-Fi network to use.

To connect your Station Pro to a network:

- 1 On the Welcome screen, select your preferred language and then tap Next.
- 2 On the Network screen, choose your network type and tap Continue:
 - Ethernet networks connect with the supplied Ethernet cable.
 - Mobile networks use the installed SIM card and its cellular network connection.
 - Wi-Fi networks connect wirelessly to a router you have previously set up.
- 3 Wait until you see the message that the device is successfully connected and then tap Next.

See also Connect and activate your Station 2 at <https://www.clover.com/help/set-up-your-mini>

	Connect your Clover device to a network You need an Internet connection to activate your device. After your device powers on, the Connect to Network screen helps get you connected. Connect to the network with an Ethernet cable Because wireless can be unreliable or spotty (which is often out of your control), we recommend connecting your Clover devices to the internet via Ethernet. This method ensures that your Clover device is connected and online even when your wireless connection is not responding. If your Ethernet cable is already plugged into the hub, your device automatically tries to connect to the internet. If your Ethernet is not connected, follow the instructions to plug in your Ethernet cable to your device. If you have problems setting up your Ethernet, learn more in the troubleshooting guide to fix your Ethernet connection problems.  You can always connect to the Ethernet after exiting the Setup Wizard. To connect your device via Ethernet: 1 Plug one end of your Ethernet cable into the device hub. 2 Plug the other end into your modem, router, or switch. Your device will automatically try to connect to the internet. You will see Successfully Connected to Server when connected. If your device does not automatically connect. 3 Tap Check Connection. If this fails, wait two minutes and tap Check Connection button again. If you receive an Error connecting to the network message: • Check that the router used is connected to the internet by plugging in your laptop or mobile device. • Check that the Ethernet cable is plugged all the way into the Printer. • Tap Check Connection. You will see Successfully Connected to Server when connected. Connect your Clover device to a Wi-Fi network To connect to a Wi-Fi network: 1 Tap Configure next to the Wi-Fi option. 2 From the list of available wireless networks, tap the name of your wireless network. (If your network doesn't appear, tap Add a New Network and then tap the network by name.) 3 Enter the network password. 4 Tap Done. 5 Tap Check Connection. When the connection is successful, you will be taken through the activation process. If not, you'll be asked to select a different network or re-enter the Wi-Fi password.
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See also Clover Web Dashboard at Clover Help Center: <https://www.clover.com/pos-systems>

Virtual Terminal for payments anywhere, anytime

Accept payments anywhere with your computer, tablet, or smartphone without a POS device. Fire up Virtual Terminal right on your Clover Web Dashboard, 24/7.

VIRTUAL TERMINAL

See also Fix network connections at <https://www.clover.com/help/fix-network-connections/>

Fix network connections

If your Clover device is having network connection problems, you can follow a series of simple tests to diagnose and fix them.

At any time, you can [contact Clover Support](#).

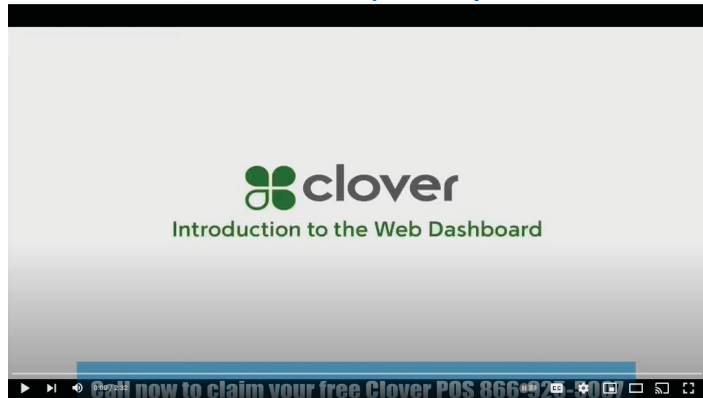
Clover devices can connect to the Internet in any one of these three ways:

- With a **3G** wireless connection, which uses 3G (third-generation wireless mobile) technology to connect.
- * With a **Wi-Fi** wireless connection, which uses a router to distribute data to your devices without a cable.
- With an **Ethernet** cable that you have plugged in from a router to your Clover device.

You can troubleshoot connection problems by following the steps for your network type.

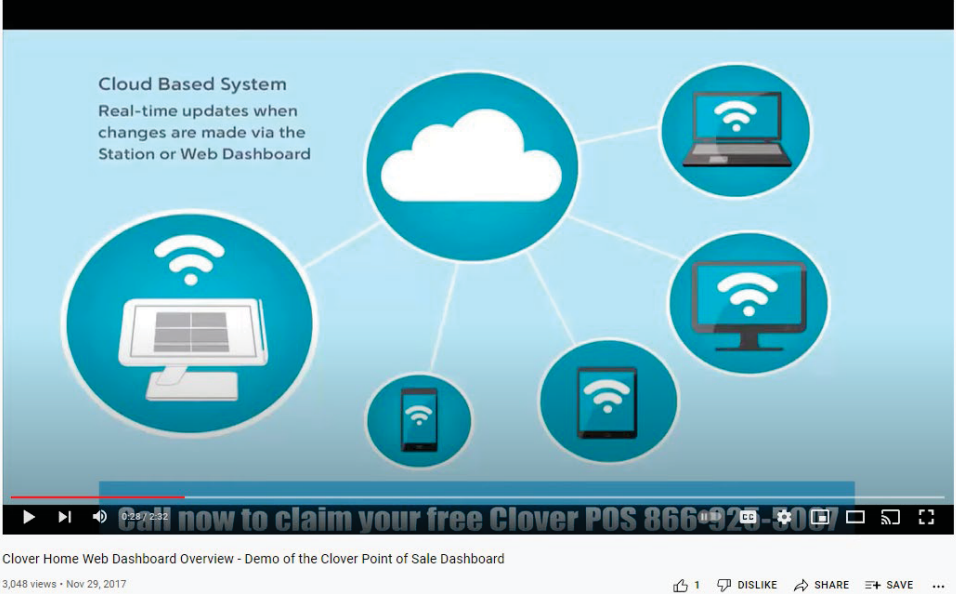
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Exhibit A, Claim Chart for U.S. Pat. No. 9,400,640

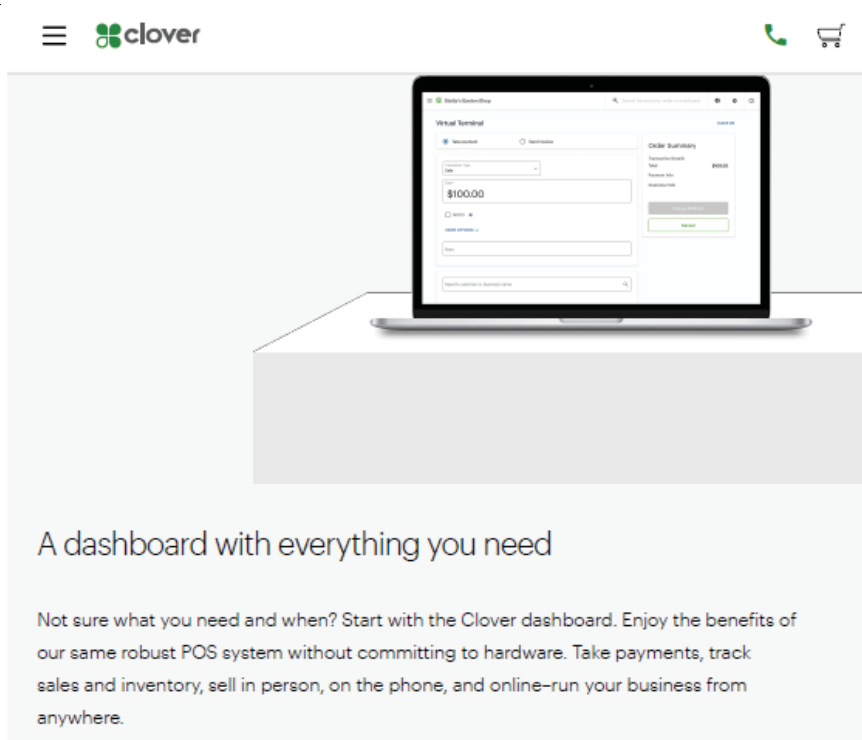
See also “Clover Home Web Dashboard Overview” at <https://www.youtube.com/watch?v=tTSSFpUhZJ8>



See also Clover Home Web Dashboard at <https://www.youtube.com/watch?v=tTSSFpUhZJ8>

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 Exhibit A, Claim Chart for U.S. Pat. No. 9,400,640

	
one or more local or remote PC workstations, and	Clover POS includes one or more local or remote PC workstations. For example Clover’s Shop Webpage includes one or more local or remote PC workstations:



A dashboard with everything you need

Not sure what you need and when? Start with the Clover dashboard. Enjoy the benefits of our same robust POS system without committing to hardware. Take payments, track sales and inventory, sell in person, on the phone, and online—run your business from anywhere.

See also Clover's Business Tracking Report:

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Exhibit A, Claim Chart for U.S. Pat. No. 9,400,640

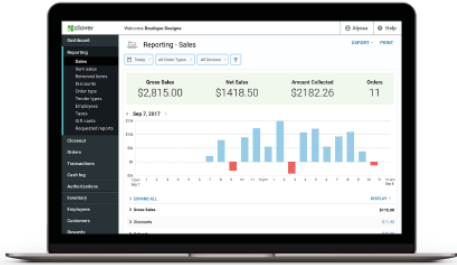




Actionable business insights with robust point of sale reporting

Use Clover's powerful analytics tools to gain real-time insights into the sales trends and data that are driving your business, and track key metrics like revenue and performance.

[CONTACT SALES](#)



<https://www.clover.com/pos-systems/business-tracking-reporting>





TRACK SALES

Use our business tracking software to stay on top of your revenue stream with clear, at-a-glance sales reports.



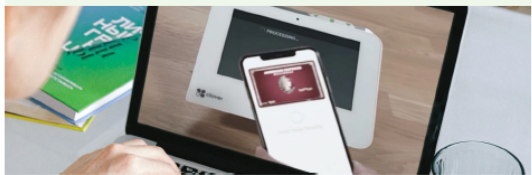
BREAK IT DOWN

Filter your POS reports to see your busiest times and your best-selling items, as well as everything from monthly sales trends to the granular details.



GET ACCESS ANYWHERE

Track your business anywhere, at any time—directly from your dashboard or the Clover Go mobile app.



<https://www.clover.com/pos-systems/business-tracking-reporting>

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Exhibit A, Claim Chart for U.S. Pat. No. 9,400,640

See also <https://www.clover.com/pos-systems/buisness-tracking-reporting>; see also <https://fortunepayments.com/clover-pos-business-tracking-reporting/>

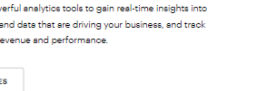




Actionable business insights with robust point of sale reporting

Use Clover's powerful analytics tools to gain real-time insights into the sales trends and data that are driving your business, and track key metrics like revenue and performance.

[CONTACT SALES](#)



Metric	Value
Gross Sales	\$2,815.00
Net Sales	\$1,418.50
Amount Collected	\$2,182.26
Orders	11

TRACK SALES

Use our business tracking software to stay on top of your revenue stream with clear, at-a-glance sales reports.



BREAK IT DOWN

Filter your POS reports to see your busiest times and your best-selling items, as well as everything from monthly sales trends to the granular details.



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Track your business anywhere, at any time—directly from your dashboard or the Clover Go mobile app.



<https://www.clover.com/pos-systems/business-technology-reporting>

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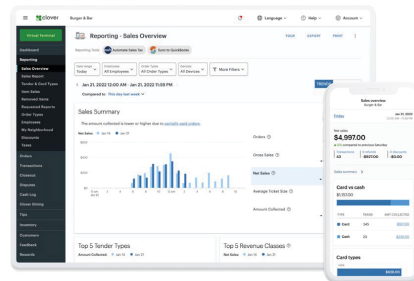
Updated Table Service Restaurants at <https://www.clover.com/pos-solutions/restaurant>

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Exhibit A, Claim Chart for U.S. Pat. No. 9,400,640

Get insights into sales and competitive trends

- Track sales in real time with Clover's quick service POS — by period, order type, menu item and server
- Compare your sales performance with similar restaurants

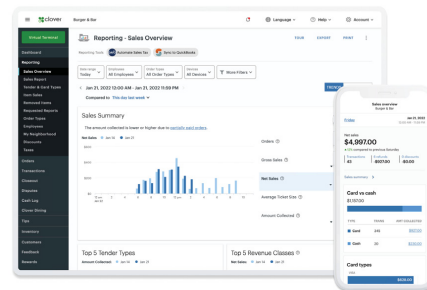
TRACKING & REPORTING



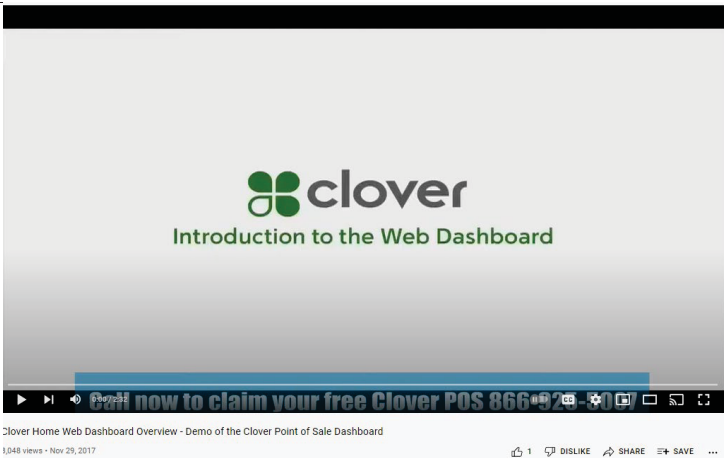
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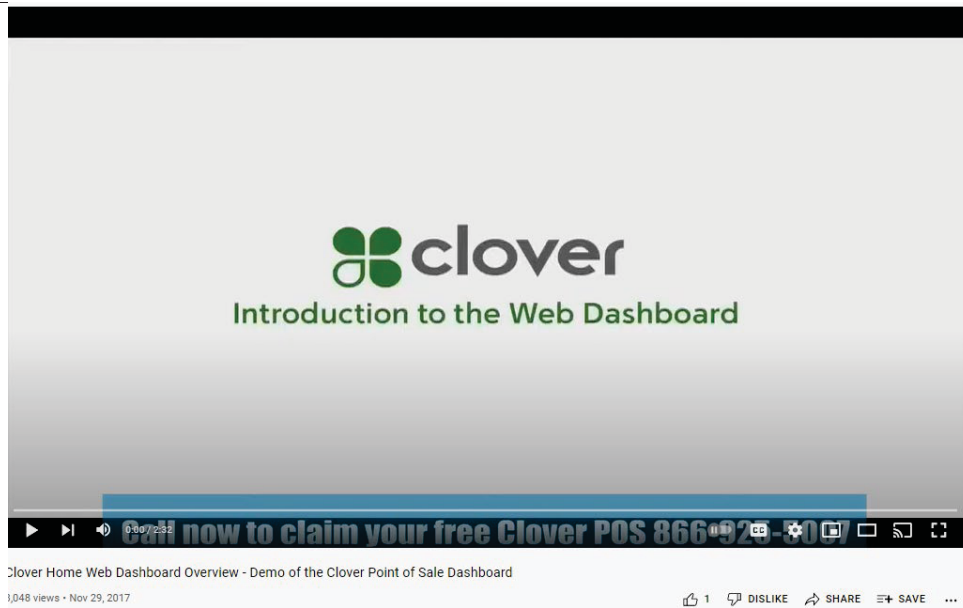
TRACKING & REPORTING



See also “Clover Home Web Dashboard Overview” at <https://www.youtube.com/watch?v=tTSSFPuHJZ8>

	
point of sale builder software that runs on said web server, wherein said local or remote workstations are utilized to build or edit said POS terminals in real time, from anywhere in the world and over the worldwide web,	Clover POS includes point of sale builder software that runs on said web server, wherein said local or remote workstations are utilized to build or edit said POS terminals in real time, from anywhere in the world and over the worldwide web. For example, Clover POS provides options for your counter service restaurant at https://nationalbankcard.com/business-types/counter-service-restaurants/. Last accessed on September 29, 2022. See also “Clover Home Web Dashboard Overview” at https://www.youtube.com/watch?v=tTSSFpUhZJ8

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See also Counter Service Video (2:29): “In inventory, click on items and add new item. Fill out the fields you need, and since you’ve already set up categories, modifiers and labels, you can simply select them in the drop down menus.”

See also id.

Build your restaurant food and beverage menu

Build your menu by adding food and beverage items using the Inventory app on the Web Dashboard. When you build a menu, you can also define menu item modifiers to help the cashier take precise orders.

To build your menu:

- 1 On a web browser, log in to the [Web Dashboard](#).
- 2 Click **Inventory > Category > Add New Category**. Decide whether you want to group similar menu items into categories for easier management. If you do, create a few categories, such as food or bar. Reports also group items by category for easier reading. After you create a category here, you can add items to it.
- 3 Click **Inventory > Labels > Add New Label**. Create labels for your menu items to easily sort them for specific purposes, such as revenue class accounting. For example, you might have a walk-up eatery and a food truck, each with separate revenue accounting. You can create a label for each revenue class. Then attach each revenue class label to items in that revenue class. And report taxes easily for that revenue class.
- 4 Click **Inventory > Modifier Groups > Add New Modifier Group**. Some menu items are ordered in a modified way, such as steak cooked rare or medium. Create modifiers and add their modifier groups to let the kitchen know exactly what the customer wants. You can also create modifiers for add-on items that cost extra, such as toppings.
- 5 Click **Inventory > Items > Add New Item**. Add menu items on this page. Fill in the details for each new item. Only the name is required. Add the item to a category. If your servers will order the item in several different ways, add it to a modifier group. If you are using labels for reporting, attach a label to it.

See also, Prepare to work with inventories and menus at <https://www.clover.com/help/prepare-to-work-with-inventories-and-menus/?device=ZKF1GcCo6sus0GkgWw6ku>

Add items three ways

You can add inventory items in three ways:

- Enter individual item details, either on a Clover device or on the Clover Web Dashboard. Use this method when you want to add one item at a time. You can also use this method to complete the details for item entries you have added in other ways.
- Scan merchandise barcodes. You can use this method when you have merchandise or stock available with barcode labels.
- Import inventory items as data from a spreadsheet. You can use this method when you want to add many items at the same time. You need each item name and any amount of additional information that describes the item. Clover supplies a spreadsheet template you can use.

See also: [Add, edit, and remove inventory items](#)

Create item variants for merchandise differentiation

For the retail industry, variants let you assign variations to a single item. For example, if your business sells a men's dress shirt available in both broadcloth and twill, you'd create an item called **Dress Shirt**, and create variants of broadcloth and twill.

To complete the transaction in the Register app, the employee chooses between Dress Shirt broadcloth and Dress Shirt twill.

For details, read about [adding items with variants](#).

See also: [Add, edit, and remove inventory items](#)

See also Add, edit, and remove inventory items at <https://www.clover.com/help/build-a-merchandise-inventory-or-restaurant-menu/?device=ZKF1GcCo6sus0GkgWw6ku>

See also id., “You can build your inventory or menu in the following ways: On the Web Dashboard, On any Clover device, Using a barcode scanner on a Clover device, Using a spreadsheet and the Web Dashboard.”

See also Manually manage item availability at <https://www.clover.com/en-US/help/manually-manage-item-availability>

See also Customize your system at <https://www.clover.com/pos-systems>



Customize your system

- The right mix of hardware

Select the stationary and portable devices that fulfill your needs.
- The right mix of software

Customize your POS system with the software features needed to run your business.
- Enhance with accessories and apps

Add Clover-approved accessories and third-party apps from our App Market that work with Clover to make your entire system more robust and efficient.

SHOP NOW

See also Clover Retail Webinar at https://youtu.be/002k57_Q4N0

- (25:15) Inventory on app and device: “We can adjust it on the device or we can do so online as well. . .”
- (25:44) Sync: “As soon as I change the price on here it’s going to sync to all my devices as well. . .”
- (28:30) Add Items with Variants

See also Clover Table Service Restaurant Webinar at <https://youtu.be/v7sBOQ66rYw>

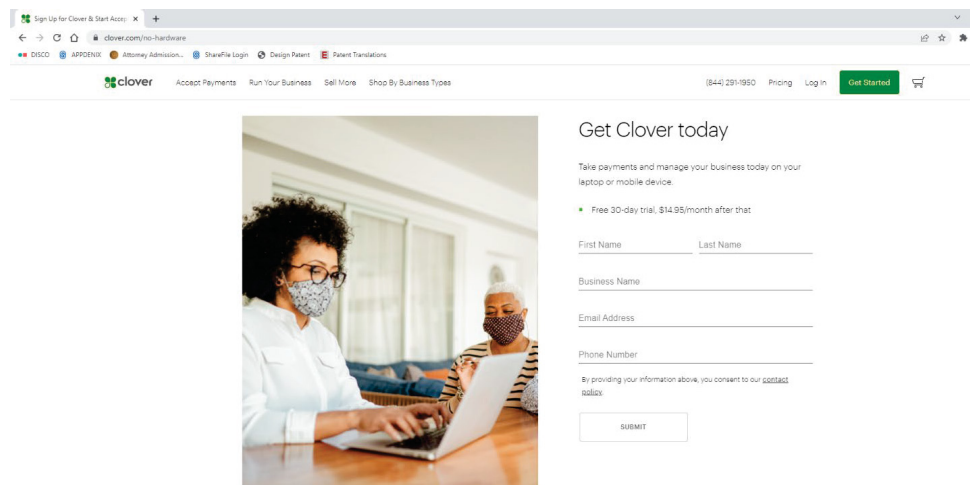
- (11:40) Real time, from anywhere: Re: restaurant floor plans, “Now likewise, I can do this from a computer. So say if I’m at home and they say ‘we need this section open and y’all didn’t open it, I can log into my Clover Web Dashboard on my computer or phone and edit the floor plan from my dashboard as well and it will just immediately update the systems at the restaurant.”
- (29:45) Customization, on the main screen of the Clover device: “...accessible here, things like editing your menu can be done on site by clicking on the inventory app...” “...very simple to adjust...”
- (38:20) Customization, in the back office, on the Web Dashboard on a computer: “Whatever changes you make at the restaurant or from the computer, they will communicate with each other so what’s nice is they synchronize within a few seconds, making things easy to keep up to date and whether you’re

	working from home or the computer it makes it hopefully convenient.” “All the tools here are available and you can access it at any given time.” <i>See also</i> Clover Tour at: https://www.youtube.com/watch?v=zGAI-Cju4Ac • (0:15): “Run your business from a Clover device or from virtually anywhere. Log into the web dashboard from any internet browser to manage everything from inventory to reports – its cloud-based. And syncs in real time with your Clover devices and apps.” <i>See also</i> Meet the Merchant: Bagels & Brew at https://blog.clover.com/bagels-and-brew/, “The thing I really appreciate . . . about using Clover is that we can update our menu and our prices in an instant.” “Clover is so easy to use and we can update everything ourselves.” <i>See also</i> Meet the Merchant: La Gelati at https://blog.clover.com/meet-the-merchant-la-gelati/, “We learned that making changes to our menu was much easier than we imagined, and we were immediately happy with it.” <i>See also</i> Clover Restaurant Businesses Holiday 2020 Webinar at https://www.youtube.com/watch?v=x4hCW5IVuIE. Last accessed on June 12, 2022. • Stacy Shulis (spelling?) – Product Marketing Director for Clover Restaurant Products: (13:20) “Clover makes it super easy to create and to market an online ordering menu.” • (29:29) “Absolutely there are actually a few features [on registers] that you can customize online.” • (30:00) Customize the look of the register • (32:00) Adding menu items demo • (35:09) No limitations to how many times or how often you can change your menu; no waiting time to have your menu updated on your system, “happens almost instantly” • (35:48) Capability to change menu items remotely
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wherein said web servers are provided as a vendor subscription service wherein web server software resides and is hosted on said vendor's remote servers and wherein subscriber company's POS terminals access and repeatedly interact with said web server software from said vendor's remote servers, in order to perform the subscriber's desired terminal function, over a network, wherein the network comprises the Internet.

Clover POS includes wherein said web servers are provided as a vendor subscription service wherein web server software resides and is hosted on said vendor's remote servers and wherein subscriber company's POS terminals access and repeatedly interact with said web server software from said vendor's remote servers, in order to perform the subscriber's desired terminal function, over a network, wherein the network comprises the Internet.

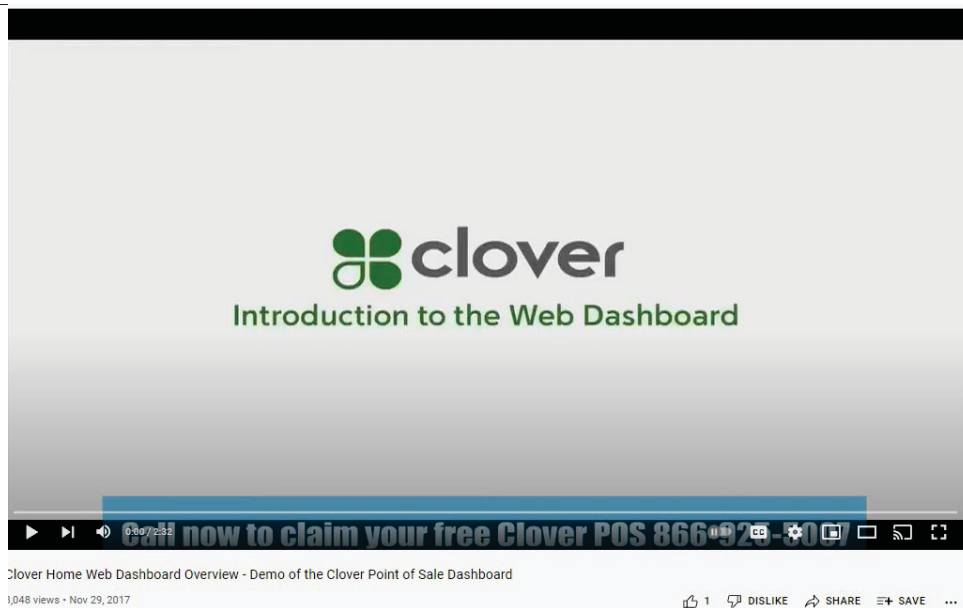
See Clover No Hardware at <https://www.clover.com/no-hardware>



See also Hardware store at <https://www.clover.com/shop>.

See also "Clover Home Web Dashboard Overview" at <https://www.youtube.com/watch?v=tTSSFpUhZJ8>

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See also difference in processing rates between Clover account with and without hardware at <https://tech.co/pos-system/clover-pos-pricing> "The Register plan is Clover's priciest non-restaurant-specific plan, and costs \$39.95 per month. Transaction fees also return to their lower rate of 2.3% + 10 cents."

See also Compare [Clover] service plans at https://assets.ctfassets.net/3mu3dzx76r6a/34mDu5cGPXZo4LLIxADf8I/4ec87289d71c6fc8ee6c87af067739b9/Clover_service_plans_6_23_2020.pdf

Claim 3	
3. The web-based point of sale (POS) builder system of claim 1	The discussion for claim 1 is herein incorporated by reference.
wherein use of said builder requires no special training.	Clover POS includes wherein use of said builder requires no special training. For example, Clover POS System (source: https://www.clover.com/pos-systems) states: COMPLETELY CUSTOMIZABLE Your POS system should be tailored to your needs today and scale with your business. Build the system you need now, and expand as you grow with devices, apps, and accessories. Last accessed on June 12, 2022. <i>See also</i> Meet the Merchant: Bagels & Brew at https://blog.clover.com/bagels-and-brew/, “The thing I really appreciate . . . about using Clover is that we can update our menu and our prices in an instant.” “Clover is so easy to use and we can update everything ourselves.” <i>See also</i> Meet the Merchant: La Gelati at https://blog.clover.com/meet-the-merchant-la-gelati/, “We learned that making changes to our menu was much easier than we imagined, and we were immediately happy with it.” <i>See also</i> Clover YouTube Ad: (Clover Demo video at https://www.youtube.com/watch?v=rrjsma7Q7VU):

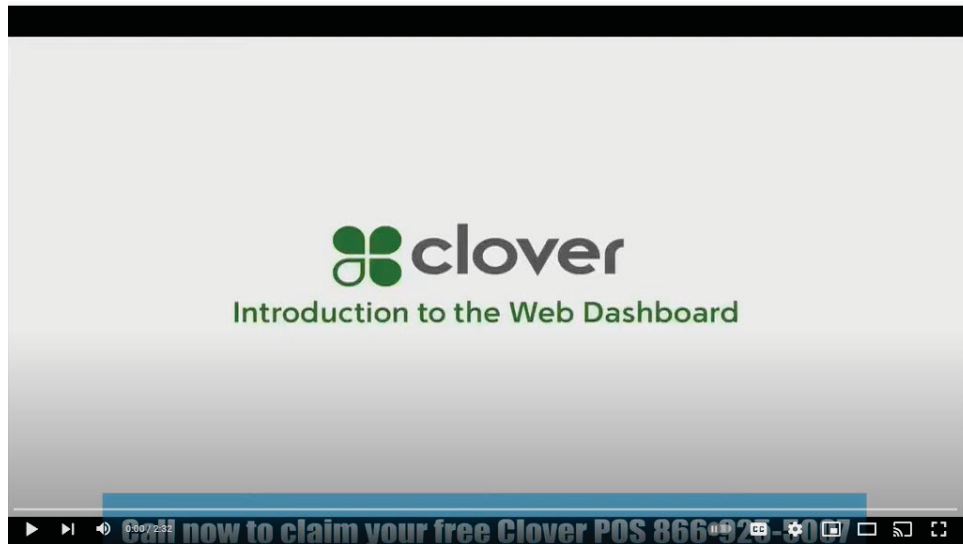
		Clover for Retail - the all-in-one point-of-sale system that's easy to use Clover does inventory Clover® POS connect.clover.com Learn More Ad 1 of 2 · 0:11 connect.clover.com 0:19 / 0:31
Claim 5		
5. The web-based point of sale (POS) builder system of claim 1	The discussion for claim 1 is herein incorporated by reference.	

wherein no specialized hardware or software is required to implement said POS builder, and wherein no on site, in-store server is required.

Clover POS includes wherein no specialized hardware or software is required to implement said POS builder, and wherein no on site, in-store server is required.

For example, Clover POS System (source: <https://www.clover.com/pos-systems>): “Clover’s point-of-sale software syncs with the cloud, so you can access your sales, refunds, deposits, and reports, wherever you are or need to be.” Last accessed on June 12, 2022.

See also “Clover Home Web Dashboard Overview” at <https://www.youtube.com/watch?v=tTSSFpUhZJ8>



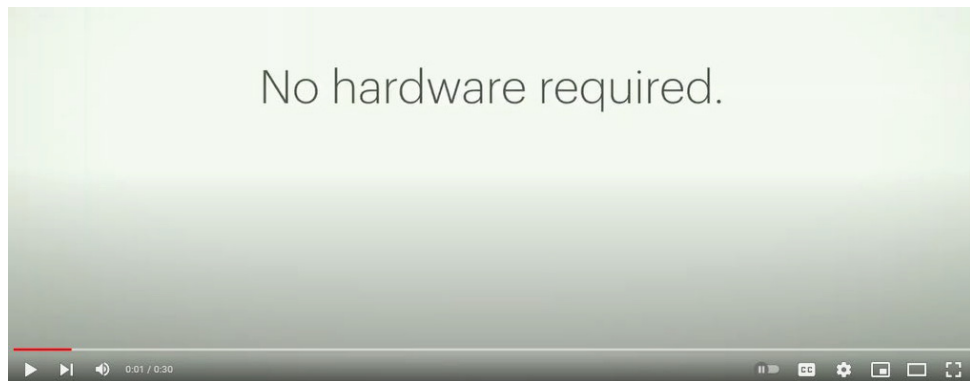
Clover Home Web Dashboard Overview - Demo of the Clover Point of Sale Dashboard

1,048 views • Nov 29, 2017

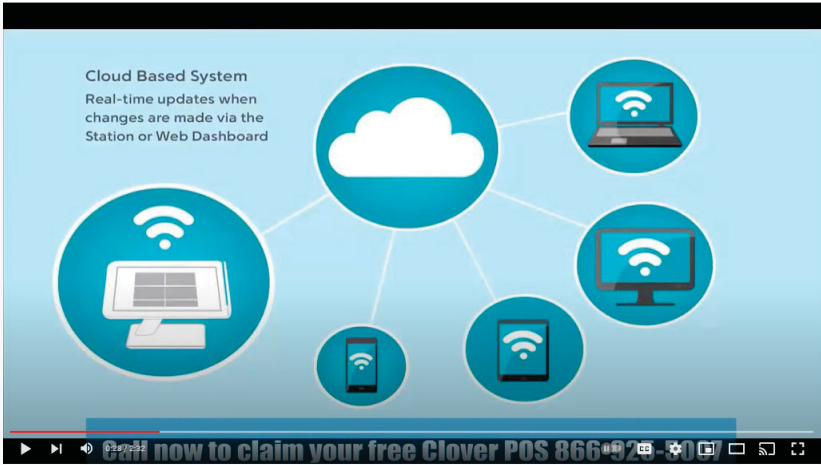
1 DISLIKE SHARE SAVE ...

See also Clover POS Shop (source: <https://www.youtube.com/watch?v=JBly5KZhv5A>): “Start taking card payments today. No hardware required.” Last accessed September 29, 2022.

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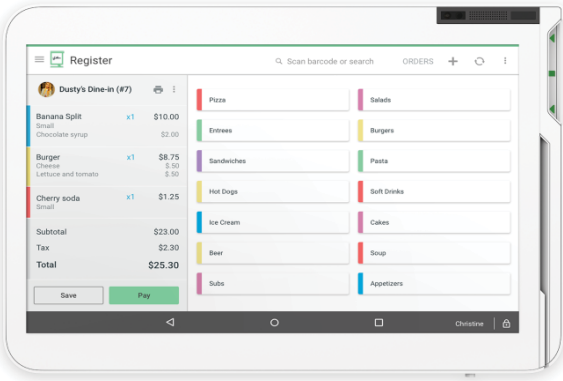


See also Clover Home Web Dashboard at <https://www.youtube.com/watch?v=tTSSFpUhZJ8>

		 Clover Home Web Dashboard Overview - Demo of the Clover Point of Sale Dashboard 3,048 views • Nov 29, 2017	
Claim 6			
6. The web-based point of sale (POS) builder system of claim 1	The discussion for claim 1 is herein incorporated by reference.		
wherein said POS builder is useable to deliver POS application solutions using software as a subscription (SAAS).	Clover POS includes wherein said POS builder is useable to deliver POS application solutions using software as a subscription (SAAS). For example, Clover Pricing (source: https://tech.co/pos-system/square-vs-clover): “The most expensive plan costs \$39.95 per month, and if you use the Clover Station or Station Pro, you’ll be required to use this plan. It charges 2.3% + \$0.10 for all transactions, and extra cash registers cost \$9.95 per month.”		

<i>Claim 8</i>	
8. The web-based point of sale (POS) builder system of claim 1	The discussion for claim 1 is herein incorporated by reference.
wherein said POS builder adds new POS screens.	Clover POS includes wherein said POS builder adds new POS screens. <i>See also</i> Add, edit, and remove inventory items at https://www.clover.com/help/build-a-merchandise-inventory-or-restaurant-menu/?device=ZKF1GcCo6sus0GkgWw6ku To add a new item on the Web Dashboard: 1 On a web browser, log in to the Web Dashboard. 2 Click Inventory. 3 On the Items tab, click Add New Item. 4 Click each entry field and add basic details. You can add basic details now or later. Only the item name is required. 5 Add optional item details by clicking Edit  for each one. 6 When you are done, click Save. The Clover system lists your new inventory item on the Web Dashboard and shows it on every Clover device.
<i>Claim 9</i>	
9. The web-based point of sale (POS) builder system of claim 1	The discussion for claim 1 is herein incorporated by reference.

wherein said POS builder edits existing POS screens.	Clover POS includes wherein said POS builder edits existing POS screens. <i>See also</i> Add, edit, and remove inventory items at https://www.clover.com/help/build-a-merchandise-inventory-or-restaurant-menu/?device=ZKF1GcCo6sus0GkgWw6ku Edit item details Use the Inventory app to edit item details. You can edit item details on a Clover device or the Web Dashboard. If you added a custom item in the Register app, you can complete the details for it here. To edit an inventory item on the Clover Web Dashboard: 1 On a web browser, log in to the Web Dashboard. 2 Click Inventory. 3 Find the item: You can scroll through the item list or enter text in the Search box and click Search. 4 When you find the item, on the item's row at the far right, click Edit . 5 Edit the item: Click the entry fields and adjust basic and optional details as needed. 6 Choose an option: • To save changes, click Save. • To save changes and clone the item, creating a duplicate version, click Save & Clone Item. • To reverse any edits you made, click Cancel. The Clover system updates the Web Dashboard and all of your Clover devices. For information about each item detail, check out the steps to add new items and the steps to add new items with variants. <i>See also</i> Manually manage item availability at https://www.clover.com/en-US/help/manually-manage-item-availability
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<i>Claim 10</i>	
10. The web-based point of sale (POS) builder system of claim 1	The discussion for claim 1 is herein incorporated by reference.
wherein said POS builder specifies and displays the number, shape and arrangement of selection keys or buttons on said POS screens.	On information and belief, Clover POS includes wherein said POS builder specifies and displays the number, shape and arrangement of selection keys or buttons on said POS screens. For example, Clover POS System (source: https://www.clover.com/pos-systems):  The screenshot shows the 'Register' screen of the Clover POS system. On the left, there is a list of items being ordered: 'Banana Split' (Small, Chocolate syrup) for \$10.00, 'Burger' (Cheese, Lettuce and tomato) for \$8.75, and 'Cherry soda' (Small) for \$1.25. The subtotal is \$23.00, tax is \$2.30, and the total is \$25.30. On the right, there are several category buttons: Pizza, Salads, Burgers, Pasta, Soft Drinks, Cakes, Soup, Appetizers, Sandwiches, Hot Dogs, Ice Cream, Beer, Subs, and Entrees. At the bottom, there are 'Save' and 'Pay' buttons. Manage your orders ▪ Made to order - Take orders for in-house, pickup, or delivery. ▪ No order is too complicated - Open tabs, split bills, and combine multiple orders easier. ▪ Drill down into the details - Ring up and track item level sales, discounts, taxes, and more.
<i>Claim 11</i>	
11. The web-based point of sale (POS) builder system of claim 1	The discussion for claim 1 is herein incorporated by reference.

wherein said POS builder adds items to be associated with said keys or buttons.	Clover POS includes wherein said POS builder adds items to be associated with said keys or buttons. For example, Clover POS Build (source: https://www.clover.com/help/build-a-merchandise-inventory-or-restaurant-menu/?device=ZKF1GcCo6sus0GkgWw6ku): To add a new item on the Web Dashboard: 1 On a web browser, log in to the Web Dashboard. 2 Click Inventory. 3 On the Items tab, click Add New Item. 4 Click each entry field and add basic details. You can add basic details now or later. Only the item name is required. 5 Add optional item details by clicking Edit  for each one. 6 When you are done, click Save. The Clover system lists your new inventory item on the Web Dashboard and shows it on every Clover device. <i>See also id.</i> Alternate Name Alternate item names are useful for employees who speak a different language. The system prints the alternate name you enter here on order receipts. To ask the system to show alternate names instead of item names, go to Setup app > Order Receipts and choose to Use alternate inventory names. Category Name Select each category you want to contain this item by clicking and choosing from the list. Cost Enter your wholesale cost for this item. <i>See also id.</i>
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	Name Enter a unique name for this item within this inventory. Every item must have a name. You can enter up to 127 characters here, including letters, numbers, and spaces. Non-revenue item Check this box to identify this item as one that you sell for others. Examples of non-revenue items include passthrough sales on behalf of other vendors. Price Enter the price to charge the customer. If you plan to use variable pricing, leave this blank. In regions where value-added (VAT) taxes apply, enter a price for this item that includes the VAT tax. Labels Select your choice of labels for this item by clicking and choosing from the list. Modifier Groups Select your choice of modifier groups for this item by clicking and choosing from the list.
<i>See also id.</i>	<i>See also id.</i>

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	Product Code Enter the universal product code (UPC) that identifies this item. On merchandise, this code is a string of numbers and letters that appears in a line of text below the barcode image. Show in Register Leave this box checked to show the item in the Register app. Uncheck it to hide the item. It's useful, for example, to hide seasonal items that are not available all year. SKU Enter the stock keeping unit (SKU) code you define. Stock Quantity Enter the number of this item now in stock. By default, Clover tracks stock quantities for you. You can switch this off by adjusting stock quantity tracking. Taxes Select your choice of tax rates by checking the boxes. Only one default tax is allowed. Argentina merchants can add only one VAT or internal tax to an item.
Claim 12	
12. The web-based point of sale (POS) builder system of claim 11	The discussion for claim 11 is herein incorporated by reference.
wherein said POS builder assigns attributes such as item name, price, cost, group, taxable and inventory status to said items.	Clover POS includes wherein said POS builder assigns attributes such as item name, price, cost, group, taxable and inventory status to said items. For example, Clover POS Build (source: https://www.clover.com/help/build-a-merchandise-inventory-or-restaurant-menu/?device=ZKF1GcCo6sus0GkgWw6ku):

	To add a new item on the Web Dashboard: 1 On a web browser, log in to the Web Dashboard. 2 Click Inventory. 3 On the Items tab, click Add New Item. 4 Click each entry field and add basic details. You can add basic details now or later. Only the item name is required. 5 Add optional item details by clicking Edit  for each one. 6 When you are done, click Save. The Clover system lists your new inventory item on the Web Dashboard and shows it on every Clover device. Alternate Name Alternate item names are useful for employees who speak a different language. The system prints the alternate name you enter here on order receipts. To ask the system to show alternate names instead of item names, go to Setup app > Order Receipts and choose to Use alternate inventory names. Category Name Select each category you want to contain this item by clicking and choosing from the list. Cost Enter your wholesale cost for this item.
<i>See also id.</i>	<i>See also id.</i>

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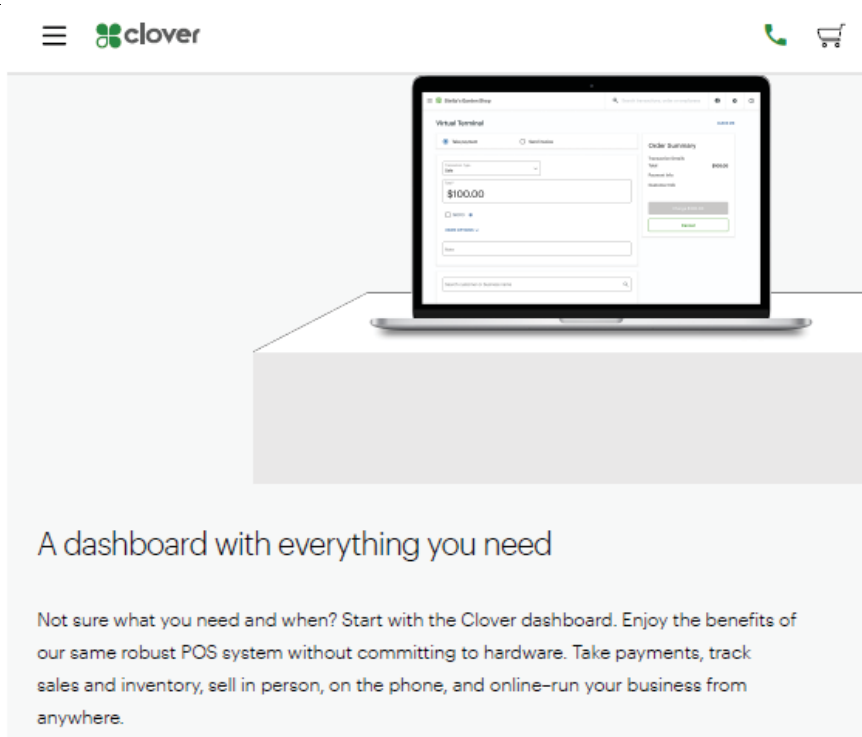
	Name Enter a unique name for this item within this inventory. Every item must have a name. You can enter up to 127 characters here, including letters, numbers, and spaces. Non-revenue item Check this box to identify this item as one that you sell for others. Examples of non-revenue items include passthrough sales on behalf of other vendors. Price Enter the price to charge the customer. If you plan to use variable pricing, leave this blank. In regions where value-added (VAT) taxes apply, enter a price for this item that includes the VAT tax. Labels Select your choice of labels for this item by clicking and choosing from the list. Modifier Groups Select your choice of modifier groups for this item by clicking and choosing from the list.
<i>See also id.</i>	<i>See also id.</i>

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	Product Code Enter the universal product code (UPC) that identifies this item. On merchandise, this code is a string of numbers and letters that appears in a line of text below the barcode image. Show in Register Leave this box checked to show the item in the Register app. Uncheck it to hide the item. It's useful, for example, to hide seasonal items that are not available all year. SKU Enter the stock keeping unit (SKU) code you define. Stock Quantity Enter the number of this item now in stock. By default, Clover tracks stock quantities for you. You can switch this off by adjusting stock quantity tracking. Taxes Select your choice of tax rates by checking the boxes. Only one default tax is allowed. Argentina merchants can add only one VAT or internal tax to an item.
<i>Claim 13</i>	
13. The web-based point of sale (POS) builder system of claim 12	The discussion for claim 12 is herein incorporated by reference.
wherein said attributes are stored, retrievable and changeable from a back office database stored on said web server.	On information and belief, Clover POS includes wherein said attributes are stored, retrievable and changeable from a back office database stored on said web server. <i>See also</i> Clover Table Service Restaurant Webinar at https://youtu.be/v7sBOQ66rYw • (11:40) Real time, from anywhere: Re: restaurant floor plans, “Now likewise, I can do this from a computer. So say if I’m at home and they say ‘we need this section open and y’all didn’t open it, I can log into my Clover Web Dashboard on my computer or phone and edit the floor plan from my dashboard as well and it will just immediately update the systems at the restaurant.” • (29:45) Customization, on the main screen of the Clover device: “...accessible here, things like editing your menu can be done on site by clicking on the inventory app...” “...very simple to adjust...”

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	(38:20) Customization, in the back office, on the Web Dashboard on a computer: “Whatever changes you make at the restaurant or from the computer, they will communicate with each other so what’s nice is they synchronize within a few seconds, making things easy to keep up to date and whether you’re working from home or the computer it makes it hopefully convenient.” “All the tools here are available and you can access it at any given time.”
<i>Claim 14</i>	
14. The web-based point of sale (POS) builder system of claim 1,	The discussion for claim 1 is herein incorporated by reference.
wherein said POS screens are viewable in real-time at remote locations anywhere in the world via personal computers with browser based web access.	Clover POS includes wherein said POS screens are viewable in real-time at remote locations anywhere in the world via personal computers with browser based web access. For example Clover’s Shop Webpage includes wherein said POS screens are viewable in real-time at remote locations anywhere in the world via personal computers with browser based web access:



See also Clover POS Systems (source: <https://www.clover.com/pos-systems>): “Clover’s point-of-sale software syncs with the cloud, so you can access your sales, refunds, deposits, and reports, wherever you are or need to be.”

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