

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Exhibit 1: Infringement Contentions for U.S. Patent No. 10,594,823 vs. Home Depot Retail Media +

Plaintiff RavenWhite accuses Defendants The Home Depot, Inc. and Home Depot U.S.A., Inc. (collectively, “Home Depot”) of making, using, offering for sale, selling in (including licensing) and/or importing into the United States Home Depot’s Retail Media+ platform, the Home Depot website, and Home Depot Mobile Applications (the “Accused Instrumentalities”). The term “Accused Instrumentalities” includes the associated software and data, associated hardware, and processes and methods related thereto, such as edge servers, data centers, and/or hosted software.

Home Depot directly infringes U.S. Patent No. 10,594,823 (the “’823 Patent”) by performing each and every step of the claims or making, using, selling, or offering for sale the Accused Instrumentalities which exhibit every element of the claims, as shown below. Home Depot also directly infringes the asserted claims of the ’823 patent to the extent Home Depot contracted with or directed a third-party to perform any of the steps of the asserted claims. Home Depot also directly infringes the asserted claims to the extent it conditions participation in an activity or receipt of a benefit upon performance of a step or steps of a patented method and establishes the manner or timing of that performance or to the extent it controls the Accused Instrumentalities as a whole and obtains benefit from them. Home Depot is therefore liable for infringement of the ’823 Patent under 35 U.S.C. § 271(a).

Home Depot induces infringement of the ’823 Patent by providing to third parties including users, customers, agents and others the Accused Instrumentalities to utilize in an infringing manner, as charted below. Home Depot intends to cause infringement by such third parties because Home Depot instructs and/or controls and directs third parties to use the Accused Instrumentalities in an infringing manner, including without limitation by instructing the users to operate the Accused Instrumentalities. Home Depot manifests this intent by providing support services for the Accused Instrumentalities, including providing instruction, support training, and services, and actively inducing its customers to sign up for online accounts. See, e.g., <https://www.homedepot.com/auth/view/createaccount>; see also https://www.homedepot.com/c/customer_service; see also <https://corporate.homedepot.com/page/contact-us>; see also https://www.homedepot.com/c/View_Pro_Directory; see also https://www.homedepot.com/c/pro_customer_support. The underlying direct infringement occurs, for example, when an end-user conducts searches as described in the claims below. End-users obtain benefits such as targeted search results. Home Depot is therefore liable for infringement of the ’823 Patent under 35 U.S.C. § 271(b).

The asserted claims include elements that are implemented, at least in part, by proprietary and specialized electronics, firmware and software in the Accused Instrumentalities. The precise designs, processes, and algorithms used in them are held secret, at least in part, and are not publicly available in their entirety. An analysis of Home Depot’s documentation and/or source code may be necessary to fully and accurately describe all infringing features and functionality of the Accused Instrumentalities and, accordingly, Plaintiffs reserve the right to supplement these contentions once such information is made available to Plaintiffs. Furthermore, Plaintiffs reserve

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the right to revise these contentions, including as discovery in the case progresses, in view of any non-infringement arguments Home Depot may make (e.g., to allege infringement under the doctrine of equivalents), in view of the Court's final claim construction in this action and in connection with the provision of expert reports.

Claim Language	Evidence of Infringement by Accused Instrumentalities
1[pre] A system, comprising: one or more processors configured to:	To the extent the preamble is limiting, Home Depot has infringed and continues to infringe the '823 Patent by creating, maintaining, and operating the Accused Instrumentalities. The Accused Instrumentalities, including web servers controlled by Home Depot, comprise one or more processors configured to use cookies and other tracking technologies on its websites when receiving and responding to client requests such as accessing web pages. For example, the Accused Instrumentalities use cookies on Home Depot's websites when responding to client requests such as accessing web pages. We collect information from you passively. We use tools like browser cookies, flash cookies, pixel tags, and web beacons to collect information when you use our websites and applications or interact with our emails. For more information about these tools and the choices you may have, please read the Our Tracking Tools section. And we use cameras and other technologies in our stores, in parking lots and at other facilities to learn about customer traffic and for fraud prevention, security, and asset protection. https://www.homedepot.com/privacy/privacy-and-security-statement

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	This Privacy and Security Statement describes the privacy practices of The Home Depot, Inc. and its subsidiaries, divisions, affiliates, brands, and other The Home Depot companies that link to this Privacy and Security Statement, including The Home Depot Foundation (subject to exceptions noted in The Home Depot Foundation section below) (collectively, "The Home Depot," "our," "us," or "we"). It applies to the information we collect in association with your interactions with us, including, but not limited to: • Use of our websites, including mobile websites • Visits to our stores or attendance at our events • Use of our applications for mobile phones, tablets, or other smart devices • Phone and email communications with us • Social media interactions on our websites and other third-party websites like Facebook, YouTube, Pinterest, Google+, Instagram, and Twitter • Viewing our online advertisements or emails • Interactions with our authorized service providers https://www.homedepot.com/privacy/privacy-and-security-statement
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	Our Tracking Tools We collect personal and other information using <u>digital tracking tools, such as cookies and web beacons</u>, when you use our websites or mobile applications, interact with our emails or applications provided on connected devices, or otherwise engage with our digital offerings. We also partner with third parties that collect information this way. These third parties may place similar tracking tools on our websites, applications, and advertising to facilitate tracking, advertising, and measurement services. The tools may collect information about your activities over time and on various digital services offered by us or others. The tools that we, our vendors, and third parties use include: • Browser and flash cookies. Cookies are small text files that websites send to your computer or other connected device to identify your browser or to store information or settings. Your browser may provide the ability to be notified when you receive certain types of cookies and how to restrict or disable certain cookies. Flash cookies generally can be disabled only by accessing Adobe Flash settings (information available here) • Server logs, which record information about the device, browser, operating system, network, and other resources you use to access our digital services • Web beacons and pixels. These are small electronic images deployed on websites and emails that collect information about how users interact with content • Application software. Software in our mobile and other connected-device applications collects information about how you interact with the digital services https://www.homedepot.com/privacy/privacy-and-security-statement
1[a] receive a network resource request from a client device, wherein the network resource	The one or more processors of the Accused Instrumentalities are configured to receive a network resource request from a client device, wherein the network resource request corresponds to a first cookie of a first type that was caused to be stored to the client device during a first previous network session, wherein the first cookie of the first type was caused to be stored to the client device at least in part by causing the client device to initiate a set of network resource requests determined during the first previous network session, wherein the client device initiating the set of network resource requests caused data representative of the set of network resource requests to be stored at the client device, wherein a second cookie of a second type different from the first type was caused to be stored at the client device during a second previous network session, and wherein the first cookie of the first type is stored in a first client device

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request corresponds to a first cookie of a first type that was caused to be stored to the client device during a first previous network session, wherein the first cookie of the first type was caused to be stored to the client device at least in part by causing the client device to initiate a set of network resource requests determined during the first previous network session, wherein the	browser storage area and the second cookie of the second type is stored in a second client device browser storage area different from the first client device browser storage area. Client devices accessing the Home Depot's website with HTTP resource requests receive network resources including cookies and other similar tracking data. For example, Home Depot's privacy and security statement describes using multiple types of tracking technologies, such as cookies, web beacons, and pixels. Our Tracking Tools We collect personal and other information using <u>digital tracking tools, such as cookies and web beacons</u>, when you use our websites or mobile applications, interact with our emails or applications provided on connected devices, or otherwise engage with our digital offerings. We also partner with third parties that collect information this way. These third parties may place similar tracking tools on our websites, applications, and advertising to facilitate tracking, advertising, and measurement services. The tools may collect information about your activities over time and on various digital services offered by us or others. The tools that we, our vendors, and third parties use include: • Browser and flash cookies. Cookies are small text files that websites send to your computer or other connected device to identify your browser or to store information or settings. Your browser may provide the ability to be notified when you receive certain types of cookies and how to restrict or disable certain cookies. Flash cookies generally can be disabled only by accessing Adobe Flash settings (information available here) • Server logs, which record information about the device, browser, operating system, network, and other resources you use to access our digital services • Web beacons and pixels. These are small electronic images deployed on websites and emails that collect information about how users interact with content • Application software. Software in our mobile and other connected-device applications collects information about how you interact with the digital services https://www.homedepot.com/privacy/privacy-and-security-statement
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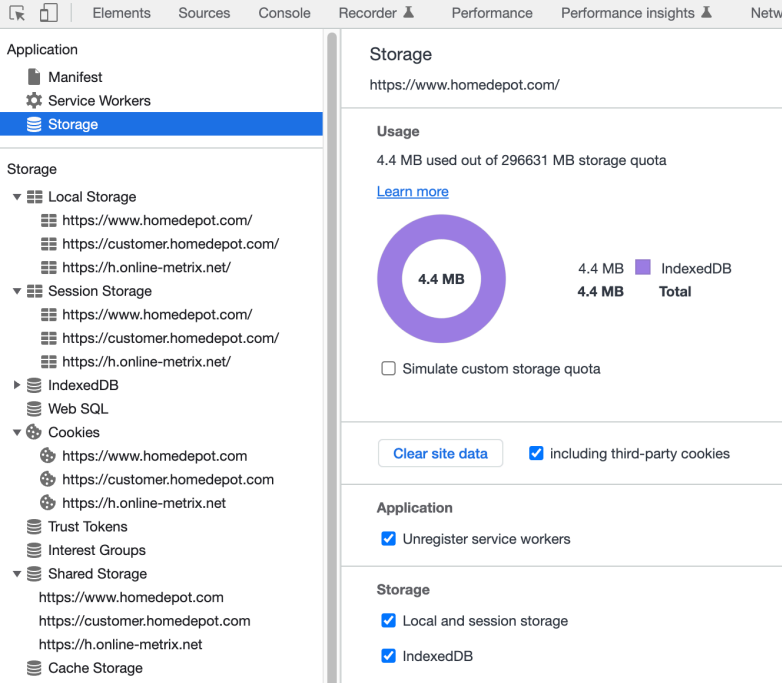
client device initiating the set of network resource requests caused data representative of the set of network resource requests to be stored at the client device, wherein a second cookie of a second type different from the first type was caused to be stored at the client device during a second previous network session, and wherein the first cookie of the first type is stored in a first client device	The cookies and trackers used by Home Depot are stored in different locations on the client device, such as, for example, in Local Storage, Session Storage, and Cookies.  Screenshot of “Application” tab in Google Chrome. Home Depot stores a first cookie of a first type that was caused to be stored to the client device during a first previous network session, wherein the first cookie of the first type was caused to be stored to the client device at least in part by causing the client device to initiate a set of network resource requests determined during the first previous network session, wherein the client device initiating the set of network resource requests caused data representative of the set of network resource requests to be stored at the client device. As explained further below, there may be at least three distinct browser storage areas – Cookies, Local Storage, and Session Storage. The “Cookie” browser storage area stores cookies such as “thda.u,” “THD_USER,” “THD_USER_SESSION,” “THD_PERSIST,” and “THD_CUSTOMER.” The “Local Storage” browser storage area stores cookies such as “THD_CART”, “checkoutPromptsDisplayInfo”, User ID, “C12”, “C13”, “thd-
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browser storage area and the second cookie of the second type is stored in a second client device browser storage area different from the first client device browser storage area;	membershipinformation,” “b2b-hf-dynamic-phone-number,” “customerConfiguration,” QM, and “gpc.” The “Session Storage” browser storage area stores cookies such as “dsPersistedStorage.” The “first” cookie can be, for example, any cookie in a first one of those three storage areas. The “second” cookie can be, for example, any cookie in any of the other two storage areas. The following screen shots provide an example of how the Accused Instrumentalities cause a client to store cookies in different browser storage areas, starting when a user first visits homedepot.com, and subsequently when a user signs in to homedepot.com. The initial visit and the subsequent sign in may each occur during different sessions, including the “first previous network session” and the “second previous network session.” Timestamps in the form of entries in a database or file modification dates, for example, show that certain storage occurred at particular times.
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As a first example, in a first previous network session, the Firefox browser profile has never been used. The browser stores first cookies (received from servers controlled by Home Depot) in the browser's storage area in a sqlite database in one browser storage area at C:\Users\z1\AppData\Roaming\Mozilla\Firefox\Profiles\zp\cookies.sqlite.

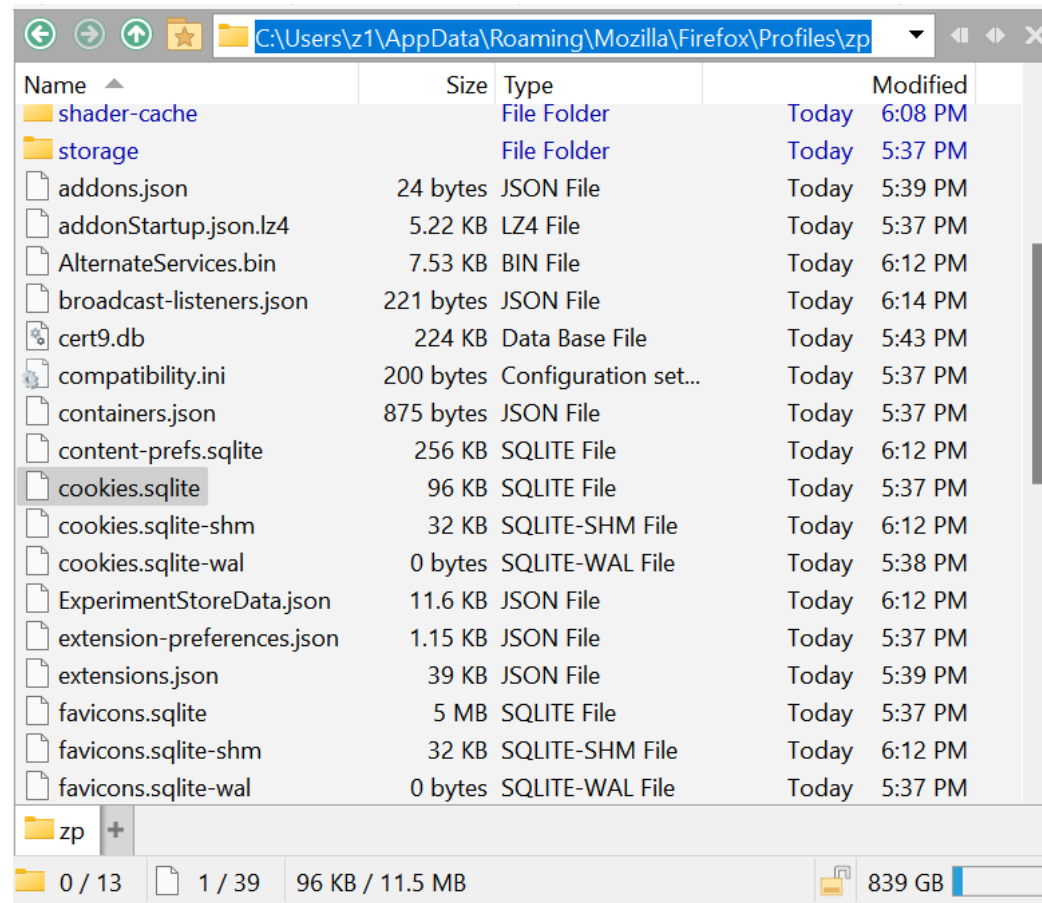
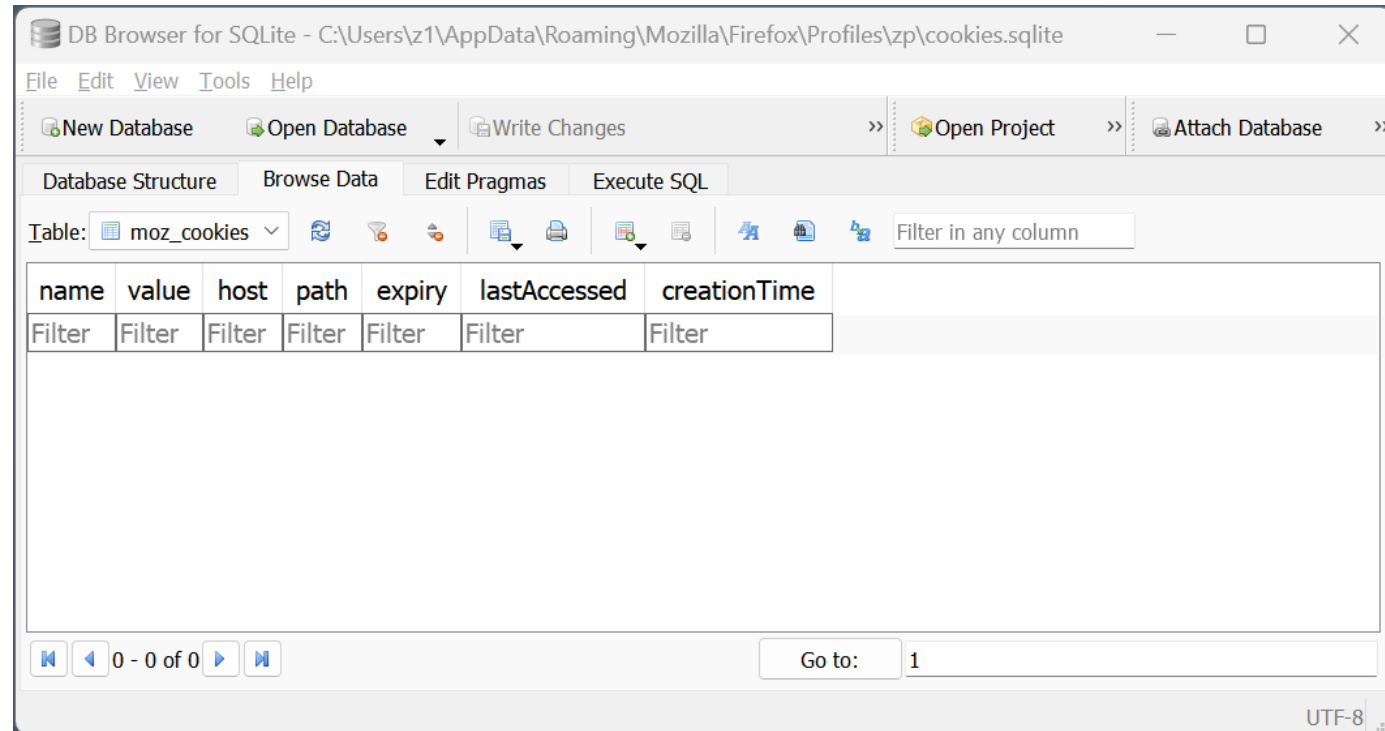


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The cookies database is empty, as can be seen by opening the database.



The browser's "Local Storage" folder is saved to the user's computer at a different browser storage area at C:\Users\z1\AppData\Roaming\Mozilla\Firefox\Profiles\zp\storage\default. Initially, the only folder in the browser's local storage is a folder for the "about:welcome" page for new browser users. That is, the Accused Instrumentalities have not yet caused the client to store anything.

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Folder Tree

Mozilla

Extensions

Firefox

Crash Reports

Pending Pings

Profiles

zp

bookmarkbackups

crashes

datareporting

extension-store

gmp-gmpopenh264

gmp-widevinecdm

minidumps

saved-telemetry-ping:

security_state

sessionstore-backups

settings

shader-cache

storage

default

< zp > storage > default >

Name	Size	Type	Modified
about+newtab		File Folder	Today 6:15 PM

default +

1 / 1 0 / 0 0 bytes / 0 bytes 839 GB

In this first example, when a user visits homedepot.com, the Accused Instrumentalities cause the browser to store data in folders within local storage and store cookies in the browser’s cookies database, even when the user has not logged in.

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History

Search history

Today

Firefox Privacy N...

The Home Depot

The Home Depot

You're shopping Longview

Delivering to 75670

Search

Black Friday Savings Happening Now. End 11/29

UP TO \$2300 OFF*

UP TO \$900 OFF*

Cookies

Indexed DB

Local Storage

Session Storage

Key

Value

deviceInfo1

({"cpuCores":16,"deviceClassification":2,"webgl2Supported":true})

dsPersistedStorage

{}

ed73f20edbf2b73

85a626411f5d4b9c9bcca19b9766eb90_1855535112785

forterToken

6aecaf8b7897496a86485af98e66cf3b,1700015181080

localizationMethod

change store overlay

lpLastVisit-31564604

1700015183840

NRBA_SESSION

({"value":"9a3b89abad8b3869","inactiveAt":1700018837312,"expiresAt":1700029513135,"u...

PXJ770cP7Y_px_fp

({"PX31":"35.7501022554934","PX32":"451a844752c9e884ffcaa777b36bbe3b","PX274":"17b...

Q_INTER

({"SI_ehszkP3JlwnjF77":1700015181.45,"SI_cG97Lo3Q9PaJsmG":1700015181.452})

QM

({"shouldLogResources":false,"s":"a92b22b03f514f6580adb65cd7ed9d57","events":[{"i":154,...

QSI_ActionSetHistory

({"AS_78122939":1700015181447,"AS_084Y1lruHbCTzG5":1700015181448,"AS_9FE0xCZBF...

signInReminderTimestamp

1700015112383

tgt:tlm:2

({"execution":1009,"parsing":0,"request":{"timeToFirstByte":43,"responseSize":301},"telemetr...

tgt:tlm:lower

1

tgt:tlm:upper

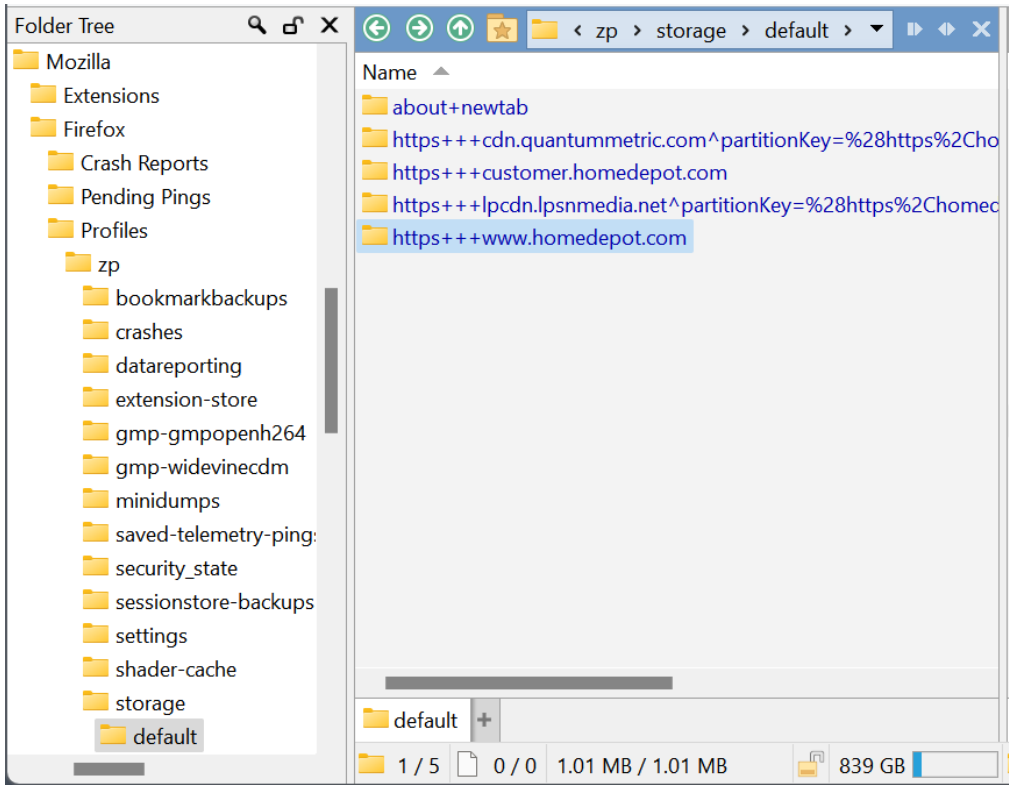
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thd3276851z-0

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The data can also be seen stored on the client device through the file system.

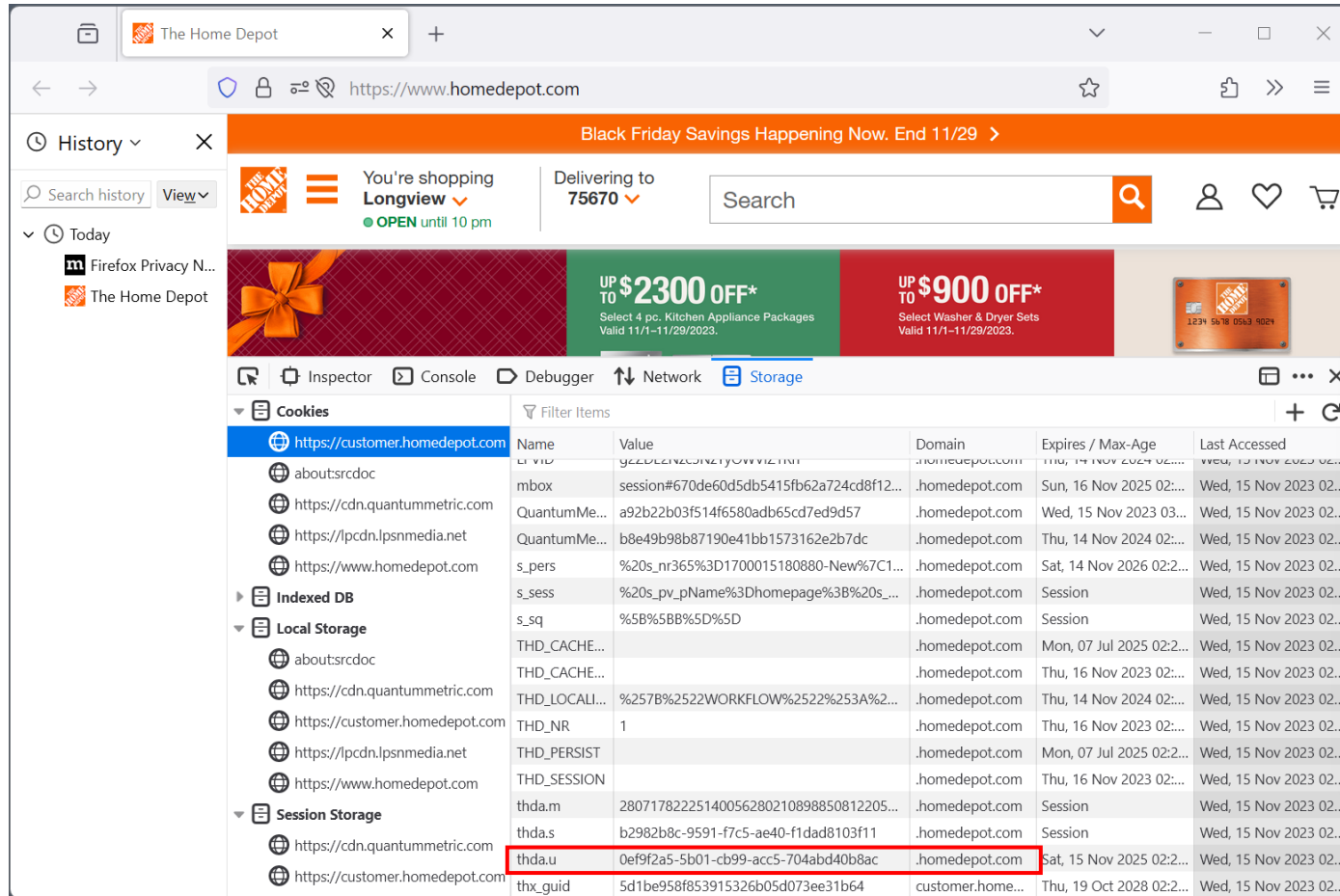


A comparison between the browser view and local storage view shows the cookies reflected in the browser’s local storage are stored in the file system.

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	▼  Local Storage  about:srcdoc  https://cdn.quantummetric.com  https://customer.homedepot.com  https://lpcdn.lpsnmedia.net  https://www.homedepot.com  https+++cdn.quantummetric.com^p  https+++customer.homedepot.com  https+++lpcdn.lpsnmedia.net^partiti  https+++www.homedepot.com Additionally, the Accused Instrumentalities cause a “thda.u” cookie to be stored in the client device’s cookies.sqlite cookies database and a “dsPersistedStorage” cookie to be stored in the client device’s session storage. When a user visits homedepot.com but does not log in, the Accused Instrumentalities cause the browser to store cookies in the browser’s cookies.sqlite database, including the “thda.u” cookie (here, a string with value “0ef9f2a5...”). This 0ef9f2a5 value may be used, for example, as a device ID.
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The cookie can also be seen by using the browser's debugger tool or by opening the cookies.sqlite database on a client device with a database editor.

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DB Browser for SQLite - C:\Users\z1\AppData\Roaming\Mozilla\Firefox\Profiles\zp\cookies.sqlite

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes Open Project Attach Database

Database Structure Browse Data Edit Pragmas Execute SQL

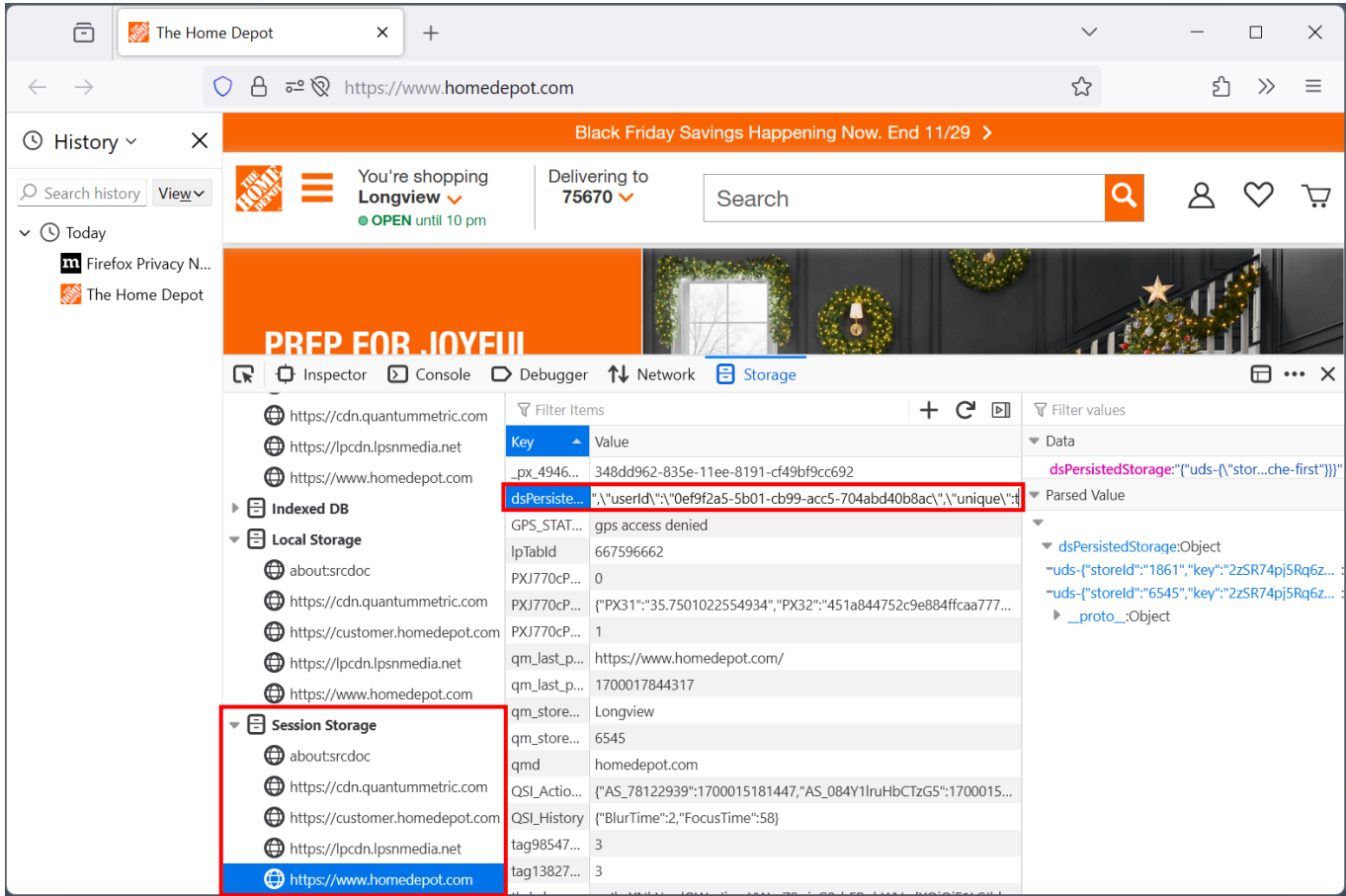
Table: moz_cookies Filter in any column

	name ▼ ¹	value	host	expiry	lastAccessed
	thd	Filter	homedepot	Filter	Filter
1	THD_CACHE_N...		.homedepot.com	1751855111	1700015172097000
2	THD_CACHE_N...		.homedepot.com	1700101511	1700015172097000
3	THD_LOCALIZER	%257B%2522WORKFLOW%2522%253...	.homedepot.com	1731551178	1700015178725000
4	THD_NR	1	.homedepot.com	1700101511	1700015172097000
5	THD_PERSIST		.homedepot.com	1751855111	1700015172097000
6	THD_SESSION		.homedepot.com	1700101511	1700015172097000
7	thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b8ac	.homedepot.com	1763173512	1700015176692000

1 - 6 of 7 Go to: 1 UTF-8

The Accused Instrumentalities also store a “dsPersistedStorage” cookie (JSON data structure) in the client device’s Session Storage, which contains a device ID. As shown in the enlarged screenshot below, the “userId” (“0ef9f2a5...”) is the same as reflected in the thda.u cookie above, which means the dsPersistedStorage cookie is tracking the device ID at this time.

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(Enlarged from above screenshot)

dsPersiste... "\\userld\\":\\"0ef9f2a5-5b01-cb99-acc5-704abd40b8ac\\"

During such a first previous network session, a client device will send a request to Home Depot’s servers with a thda.u cookie, but a blank THD_PERSIST cookie (string).

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History

Search history

Today

Firefox Privacy N...

The Home Depot

Black Friday Savings Happening Now. End 11/29

You're shopping Longview

Delivering to 75670

Search

Black Friday Savings

Inspector

Console

Debugger

Network

Storage

Met...	Domain	File	Initiator	Type	Transferred	Size
GET	www.homedepot.com	/	document	html	100.38 kB	470.52 kB
GET	va.v.liveperson.net	31564604?sid=J	/74 (script)	js	1.17 kB	73 B
POST	collector-pxj770cp7y.px-cl...	beacon	beacon			
POST	swasc.homedepot.com	s954440531916	appMeasure.c...			
POST	ingest.quantummetric.com	homedepot?T=f	quantum-ho...			
POST	ingest.quantummetric.com	homedepot?T=f	quantum-ho...			
POST	6aecaf8b7897496a86485af...	prop.json	script.js:1 (bea...			
POST	6aecaf8b7897496a86485af...	prop.json	script.js:1 (bea...			
POST	ingest.quantummetric.com	homedepot?T=f	quantum-ho...			
POST	ingest.quantummetric.com	homedepot?T=f	quantum-ho...			
POST	ingest.quantummetric.com	homedepot?T=f	quantum-ho...			
POST	ingest.quantummetric.com	homedepot?T=f	quantum-ho...			

THD NR: "1"

THD_PERSIST: ""

THD_SESSION: ""

thda.m: "28071782225140056280210898850812205946"

thda.s: "b2982b8c-9591-f7c5-ae40-f1dad8103f11"

thda.u: "0ef9f2a5-5b01-cb99-acc5-704abd40b8ac"

tr: "5127963918660798122"

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	Enlarged from above: THD_PERSIST: "" THD_SESSION: "" thda.m: "280717822251400562802108988508122059 46" thda.s: "b2982b8c-9591-f7c5-ae40-f1dad8103f11" thda.u: "0ef9f2a5-5b01-cb99-acc5-704abd40b8ac" As a second example, such as during a second previous network session, when a user logs in to homedepot.com with a Personal Account, the Accused Instrumentalities cause further cookies to be stored on a client device.
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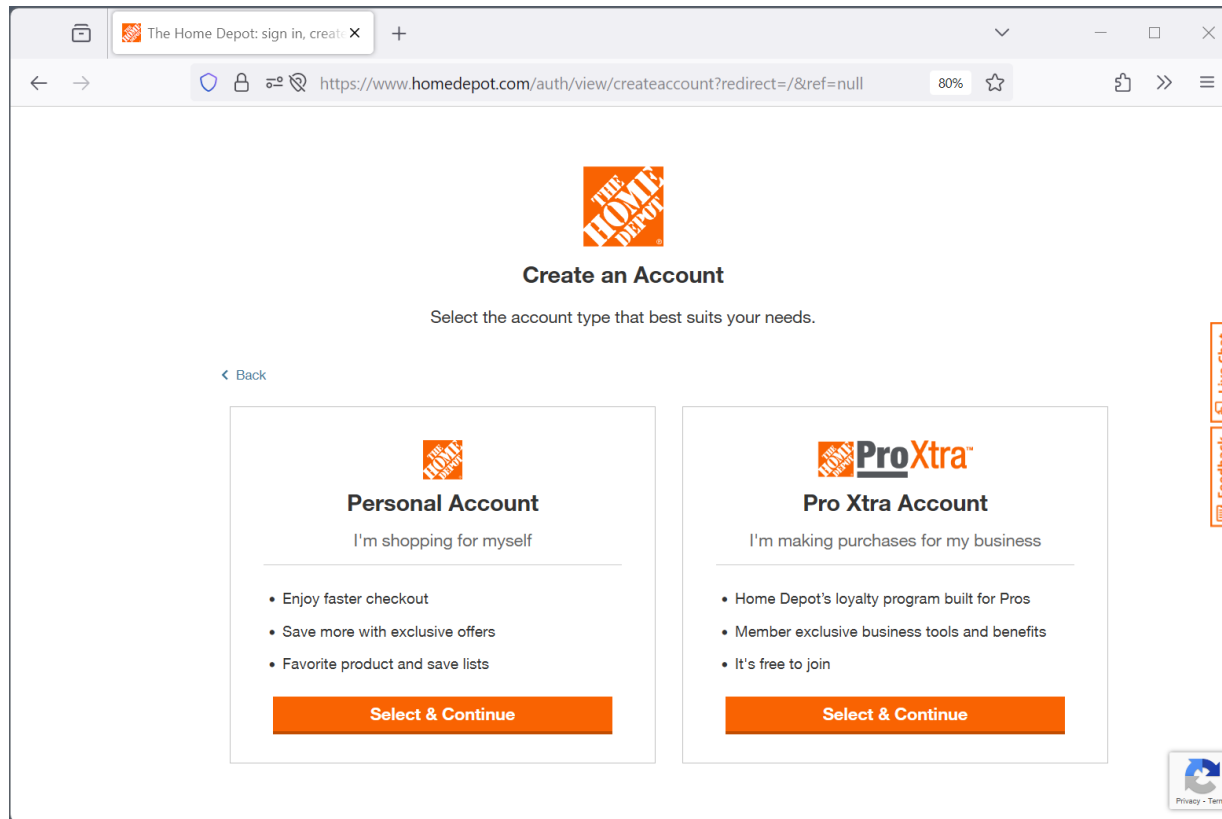


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For example, during login, the Accused Instrumentalities will cause both a THD_USER_SESSION cookie (combination of string and base64 encoded JSON string) and THD_USER cookie (base64 encoded JSON string) to be stored on the client device in the cookies storage area.

SiteMap - The Home Depot

https://www.homedepot.com/c/site_map

80%

Black Friday Savings

You're shopping Longview

Delivering to 75670

What can we help you find today?

OPEN until 10 pm

What can we help you find today?

Home Decor, Furniture & Kitchenware

DIY Projects & Ideas

Pro

Home / Sitemap

Sitemap - The Home Depot

About Home Depot

Electrical

Home Projects & Ideas

Inspector

Console

Debugger

Network

Storage

Cache Storage

Cookies

Indexed DB

Local Storage

Session Storage

Filter Items

Name	Value	Domain	Expires / Max-Age	Last Accessed
THD_MCC_TOKEN	eyJhbGciOiJkaXiiLCJlbmMi...	.homedepot.com	Wed, 15 Nov 2023 06:16:16 GMT	Wed, 15 Nov 2023 06:01:16 GMT
THD_NR	1	.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT	Wed, 15 Nov 2023 20:21:23 GMT
THD_PERSIST	C6%3d%7b%2211%22%3a...	.homedepot.com	Tue, 08 Jul 2025 06:01:48 GMT	Wed, 15 Nov 2023 20:21:23 GMT
THD_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT	Wed, 15 Nov 2023 20:21:23 GMT
THD_SSUI_LOG_TOKEN	eyJhbGciOiJkaXiiLCJlbmMi...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT	Wed, 15 Nov 2023 03:26:26 GMT
THD_SSUI_TOKEN	eyJhbGciOiJkaXiiLCJlbmMi...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT	Wed, 15 Nov 2023 07:42:29 GMT
THD_TMX_CACHE	nkGEE3Yrx5QLMQE-wScGh...	.homedepot.com	Thu, 16 Nov 2023 03:26:27 GMT	Wed, 15 Nov 2023 20:21:23 GMT
THD_TRANSACT	d1726467-8c02-435f-94b2...	.homedepot.com	Session	Wed, 15 Nov 2023 20:21:23 GMT
THD_USER_SESSION	eyJzljoiMDQyN0VFQ0RERE...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT	Wed, 15 Nov 2023 20:21:23 GMT
THD_USER	eyJjdXN0b21ldR5cGUiOiJC...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT	Wed, 15 Nov 2023 20:21:23 GMT
thda.m	2807178222514005628021...	.homedepot.com	Session	Wed, 15 Nov 2023 20:21:23 GMT
thda.s	b2982b8c-9591-f7c5-ae40-...	.homedepot.com	Session	Wed, 15 Nov 2023 20:21:23 GMT
thda.u	0ef9f2a5-5b01-cb99-acc5-...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT	Wed, 15 Nov 2023 20:21:23 GMT

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A cropped and enlarged version of these cookies is shown here.

THD_USER_SESSION	eyJzIjoiMDQyN0VFQ0RERE...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
THD_USER	eyJjdXN0b21ldlR5cGUiOiJC...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
thda.m	2807178222514005628021...	.homedepot.com	Session
thda.s	b2982b8c-9591-f7c5-ae40-...	.homedepot.com	Session
thda.u	0ef9f2a5-5b01-cb99-acc5-...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT

The THD_USER_SESSION value includes data that is encoded in base 64. Decoding it provides the following result, showing that the THD_USER_SESSION contains a user ID.

```
{
  "s": "0427EECDDDF1CD740U:11eb45ac-ae7-4f9d-b97c-933761f31e7b",
  "u": "0427EECDDDF1CD740U",
  "i": "3wZWXxWhPx6P9iz0s0DBfFX3AIs.*AAJTSQACMDIAAINLABxVN0JNbHizYy9OZGxhQjFDQnRTUE95S0V5dTA9AAR0eXBIAANDVFMAAIMxAAlwMQ..*",
  "c": "B2C",
  "t": "0427EECDDDEFCD740S",
  "v": "1700018787584",
  "k": "y"
}
```

The THD_USER value is also encoded in base 64. Decoding it provides the following result, showing that the THD_USER includes the customer's svocCustomerId, loginId, and userId.

```
{
  "customerType": "B2C",
  "svocCustomerId": "0427EECDDDEFCD740S",
  "loginId": "z_user1@b.org",
  "userId": "0427EECDDDF1CD740U"
}
```

The Accused Instrumentalities will also populate the THD_PERSIST cookie during login, unlike when the user was visiting homedepot.com without logging in. When logging in, the client device will send the THD_PERSIST cookie with data including information from the C12 cookie (JSON data structure) (such as the user's email address, which may be used as a user ID) to Home Depot servers.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The screenshot shows a web browser with the URL https://www.homedepot.com/c/site_map. The page title is "Sitemap - The Home Depot". The browser's developer tools are open, showing the Network tab. The list of requests includes:

Method	Domain	File	Initiator	Type	Transferred	Size
POST	collector-pxj770cp7y.px-cloud.net	beacon	main.min.js:3 (beacon)			
POST	customer.homedepot.com	Yox-8zswlacf	UA7Rz0ToNeZacKQ:137 (be...			
GET	www.homedepot.com	site_map	document	html	105.11 kB	480.15 kB
POST	swasc.homedepot.com	s9974961878:	appMeasure.core.js:1 (beacon)			
POST	ingest.quantummetric.com	homedepot?T	quantum-homedepot.js [cdn...			
POST	ingest.quantummetric.com	homedepot?T	quantum-homedepot.js [cdn...			
POST	6aeca8fb7897496a86485af98e66cf3...	prop.json	script.js:1 (beacon)			
POST	6aeca8fb7897496a86485af98e66cf3...	prop.json	script.js:1 (beacon)			
POST	innest.quantummetric.com	homedepot?T	quantum-homedepot.js [cdn...			

The 'Cookies' tab is also visible on the right side of the developer tools, showing cookies for the domain www.homedepot.com.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	Enlarged from above: THD_PERSIST: "C12=z_user1@b.org; C12_EXP=1731554787;;C13=self; C13_EXP=1731554787" THD_SESSION: "" The C12 cookie information is stored in Local Storage on a customer device after a user has logged in. Also shown below is the User ID key ("0427EE...") (JSON data structure) stored in Local Storage.
--	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

SiteMap - The Home Depot

https://www.homedepot.com/c/site_map

80%

Black Friday Savings Happening Now. End 11/29

You're shopping

Longview

OPEN until 10 pm

Delivering to

75670

What can we help you find today?

My Account

Lists

Cart | 0 items

All Departments

Home Decor, Furniture & Kitchenware

DIY Projects & Ideas

Project Calculators

Installation & Services

Specials & Offers

Local Ad & Catalog

Home / Sitemap

Sitemap - The Home Depot

About Home Depot

Electrical

Home Projects & Ideas

Playground Sets & Equipment

Home Décor

Cookies

Indexed DB

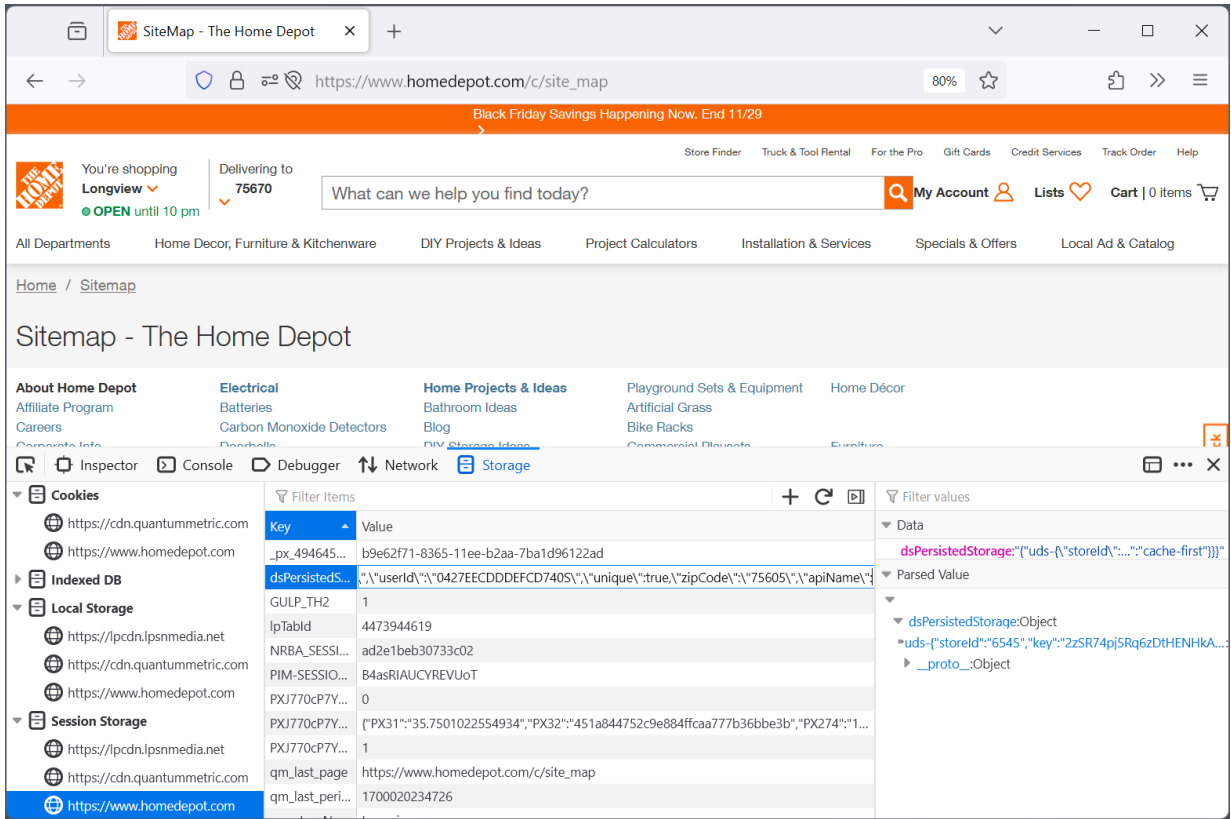
Local Storage

Session Storage

Key	Value
0427EECDDDF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1700025994177}
_meta_enrichmentService_user_failure	{"value":"not found","expires":"2023-11-16T03:26:35.775Z"}
BTT_Collect	{"value":"on","expires":"1700021754180"}
BTT_GUID_PV	{"GUID":"531626447404975825","cartValDOY":"318","cartVal":"0"}
BTT_WCD_Collect	{"value":"off","expires":"1700021754180"}
BTT_X0siD	{"value":"345589163605768860","expires":"1700021754180"}
C12	{"value":"z_user1%40b.org","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}
C13	{"value":"self","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}
deviceInfo1	{"cpuCores":16,"deviceClassification":2,"webgl2Supported":true}
NRBA_SESSION	{"value":"9a3b89abad8b3869","inactiveAt":1700021751767,"expiresAt":1700029513135,"updatedAt":1700019951935,"ses...
PXJ770cP7Y_px_fp	{"PX31":"35.7501022554934","PX32":"451a844752c9e884ffcaa777b36bbe3b","PX274":"17b9e238678e960ac4cb6fc58bd2...

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

In Session Storage, the Accused Instrumentalities will also cause the dsPersistedStorage cookie to be updated.



The dsPersistedStorage cookie is updated to show value “0427EE...”, which is the value of the user ID shown above in, for example, THD_USER and THD_USER_SESSION, instead of the previous value dsPersistedStorage contained, which pertained to the device ID.

Key	Value
_px_494645...	b9e62f71-8365-11ee-b2aa-7ba1d96122ad
dsPersistedS...	\"\\\"userId\\\": \"0427EECDDEFC7405\\\", \"unique\\\": true, \"zipCode\\\": \"75605\\\", \"apiName\\\": \"THD_USER_SESSION\"
GULP_TH2	1

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	As a third example, during a second previous network session, when a user logs in to homedepot.com with a Pro Account, the Accused Instrumentalities cause different cookies to be stored on a client device. For example, the Accused Instrumentalities continue to cause the THD_PERSIST cookie (in Cookie storage), and C12 (in Local Device storage), to be stored on the client device during login, as described in the second example. The Accused Instrumentalities additionally cause a THD_CUSTOMER cookie (base64 encoded JSON string) to be stored in the Cookies storage area and C13, b2b-hf-dynamic-phone-number, customerConfiguration, QM, and thd-membershipinformation cookies (all JSON data structures) to be stored in the Local Storage area on the client device.
--	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

For example, the THD_CUSTOMER, thda.u, and THD_PERSIST cookies are shown in the Cookie storage area below:

SiteMap - The Home Depot

https://www.homedepot.com/c/site_map

80%

Explore Features | Need Help? | Call 1-800-525-5000 or Text 78465

Pro

You're shopping Longview

Delivering to 75670

Search by product, manufacturer part, or SKU number...

Hello, Z Customer

Cart

All Products

Specials & Offers

Credit Services

Rental

Services

Special Order

Resource Center

Lists

Buy It Again

Quotes

Quick Add

Black Friday Savings All Month Long — Shop Now >

Home / Sitemap

Sitemap - The Home Depot

Inspector

Console

Debugger

Network

Storage

Cache Storage

Cookies

Indexed DB

Local Storage

Session Storage

thd

Name	Value	Domain	Expires / Max-Age	Last Accessed
THD_CUSTOMER	eyJzljoiMDUyN0YwQzZGRUFDNjMxRDhVMDlyMDNjMWM2LTExY2UtNDJ...	.homedepot...	Thu, 14 Nov 2024 2...	Wed, 15 Nov 2023 2...
THD_LOCALIZER	%257B%2522WORKFLOW%2522%253A%2522LOCALIZED_BY_STORE%25...	.homedepot...	Thu, 14 Nov 2024 2...	Wed, 15 Nov 2023 2...
THD_MCC_ID	2e6bfd13-bfcd-4b90-bd66-1ce02da2a335	.homedepot...	Session	Wed, 15 Nov 2023 2...
THD_MCC_TOKEN	eyJhbGciOiJkaXIlLCJlbmMiOiJBMjU2R0NNIn0.7klJfs2m0bpd3R7xg0i5pQ...	.homedepot...	Wed, 15 Nov 2023 0...	Wed, 15 Nov 2023 0...
THD_NR	1	.homedepot...	Thu, 16 Nov 2023 0...	Wed, 15 Nov 2023 2...
THD_PERSIST	%3D%3A%3BC12%3Dz_customer1%40b.org%3A%3BC12_EXP%3D17316...	.homedepot...	Thu, 14 Nov 2024 2...	Wed, 15 Nov 2023 2...
THD_SESSION		.homedepot...	Thu, 16 Nov 2023 0...	Wed, 15 Nov 2023 2...
THD_SSUI_LOG_TOKEN	eyJhbGciOiJkaXIlLCJlbmMiOiJBMjU2R0NNIn0.ZKNeCieg3vMA0sdl-Trriw.2...	.homedepot...	Thu, 16 Nov 2023 0...	Wed, 15 Nov 2023 2...
THD_SSUI_TOKEN	eyJhbGciOiJkaXIlLCJlbmMiOiJBMjU2R0NNIn0.ZKNeCieg3vMA0sdl-Trriw.2...	.homedepot...	Thu, 16 Nov 2023 0...	Wed, 15 Nov 2023 2...
THD_TMX_CACHE	zwC3GpjRhJV8nKJhTnyrV74rWwUennaPAfey8Wm1Ulw5XMA6buhOVaHy0...	.homedepot...	Thu, 16 Nov 2023 2...	Wed, 15 Nov 2023 2...
THD_TRANSACTION	81550e92-85a0-4ccc-90ab-9d6358db8555	.homedepot...	Session	Wed, 15 Nov 2023 2...
thda.m	28071782225140056280210898850812205946	.homedepot...	Session	Wed, 15 Nov 2023 2...
thda.s	b2982b8c-9591-f7c5-ae40-f1dad8103f11	.homedepot...	Session	Wed, 15 Nov 2023 2...
thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b8ac	.homedepot...	Sat, 15 Nov 2025 02...	Wed, 15 Nov 2023 2...

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

An expanded view of the THD_PERSIST cookie is shown below, showing C12 and C13 user identifying information:

The screenshot shows a web browser window with the Home Depot Pro account overview page. The Network tab is open, showing a list of requests. The first request is a GET request to `www.homedepot.com/overview_pro_onboard` with a status of 200. The response is an HTML document. The cookie details for `thd_persist` are expanded, showing the following values:

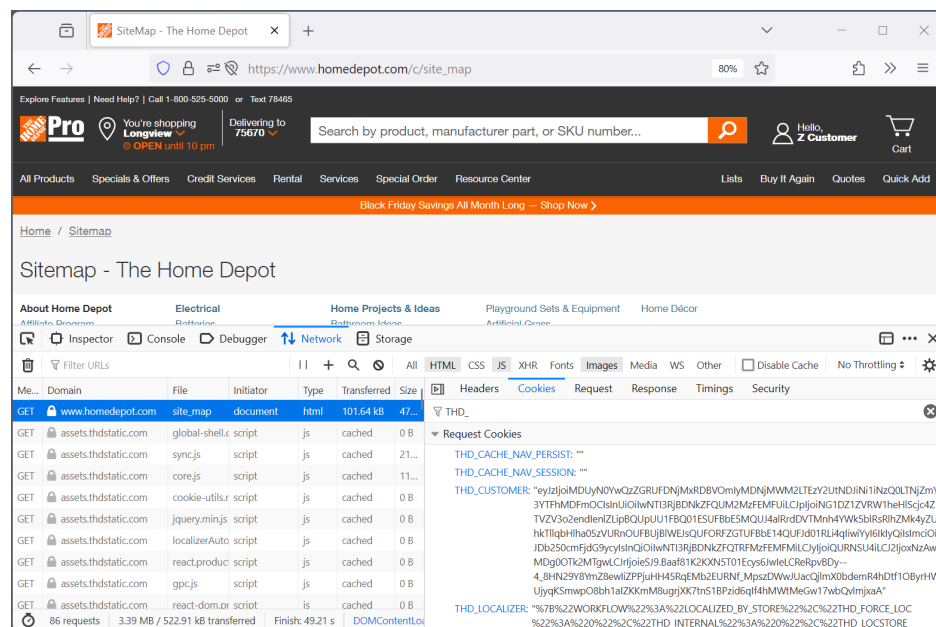
```
THD_PERSIST: 'C6={"11":"0"};C6_EXP=1702679117;  
C12=z_customer1@b.org;  
C12_EXP=1751927117;C13=Z  
CUSTOMER:C13_EXP=1751927117'
```

Method	Domain	File	Initiator	Type	Transferred	Size	Headers	Cookies	Request	Response
GET	www.homedepot.com	overview_pro_onboard	document	html	63.42 kB	270.84 kB		thd_persist		
GET	assets.thdstatic.com	global-shell.d950bcf9	script	js	cached	0 B				
GET	assets.thdstatic.com	sync.js	script	js	cached	0 B				
GET	assets.thdstatic.com	localizerAutolnit.amd	script	js	cached	0 B				
GET	assets.thdstatic.com	react.production.min	script	js	cached	0 B				
GET	assets.thdstatic.com	react-dom.production	script	js	cached	0 B				
GET	assets.thdstatic.com	core.js	script	js	cached	0 B				
GET	assets.thdstatic.com	thd-customer.js	script	js	cached	0 B				
GET	assets.thdstatic.com	cookie-utils.min.js	script	js	cached	0 B				
GET	assets.thdstatic.com	global.digitalData.js	script	js	cached	0 B				
GET	assets.thdstatic.com	jquery.min.js	script	js	cached	0 B				

170 requests | 1.63 MB / 305.60 kB transferred | Finish: 7.81 min | DOMContentLoaded: 385 ms | load: 551 ms

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The THD CUSTOMER cookie is encoded in base64.



Decoding it gives the following result, showing a Pro user ID (“u”:“0527f...”):

```
{
  "s": "0527F0C6FEAC631D0U:b203c1c6-13ce-42b6-b744-3cff7a1a01f8",
  "u": "0527F0C6FEAC631D0U",
  "i": "4mCgVUEmaxyRr78e5YWz6zwHzY.*AAJTSQACMDIAAINLABxjTkt5S2xxai9nTIFXY2N2eHdNYjlyakNsUDg9AAR0eXBIAANDVFMAAI MxAAIwMQ..*",
  "c": "B2B",
  "g": "Contractors",
  "t": "0527F0C6FEA4E31D0S",
  "r": "ADMIN",
  "v": 1700084996180,
  "k": "y"
}
```

The C12, C13, b2b-h-dynamic-phone-number, and customerConfiguration cookies in the Local Storage area are shown below:

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

SiteMap - The Home Depot

https://www.homedepot.com/c/site_map

80%

Explore Features | Need Help? | Call 1-800-525-5000 or Text 78465

Pro

You're shopping Longview

OPEN until 10 pm

Delivering to 75670

Search by product, manufacturer part, or SKU number..

Hello, Z Customer

Cart

All Products

Specials & Offers

Credit Services

Rental

Services

Special Order

Resource Center

Lists

Buy It Again

Quotes

Quick Add

Black Friday Savings All Month Long — Shop Now >

Home / Sitemap

Sitemap - The Home Depot

About Home Depot

Electrical

Home Projects & Ideas

Playground Sets & Equipment

Home Décor

Inspector

Console

Debugger

Network

Storage

Cache Storage

Cookies

Indexed DB

Local Storage

Session Storage

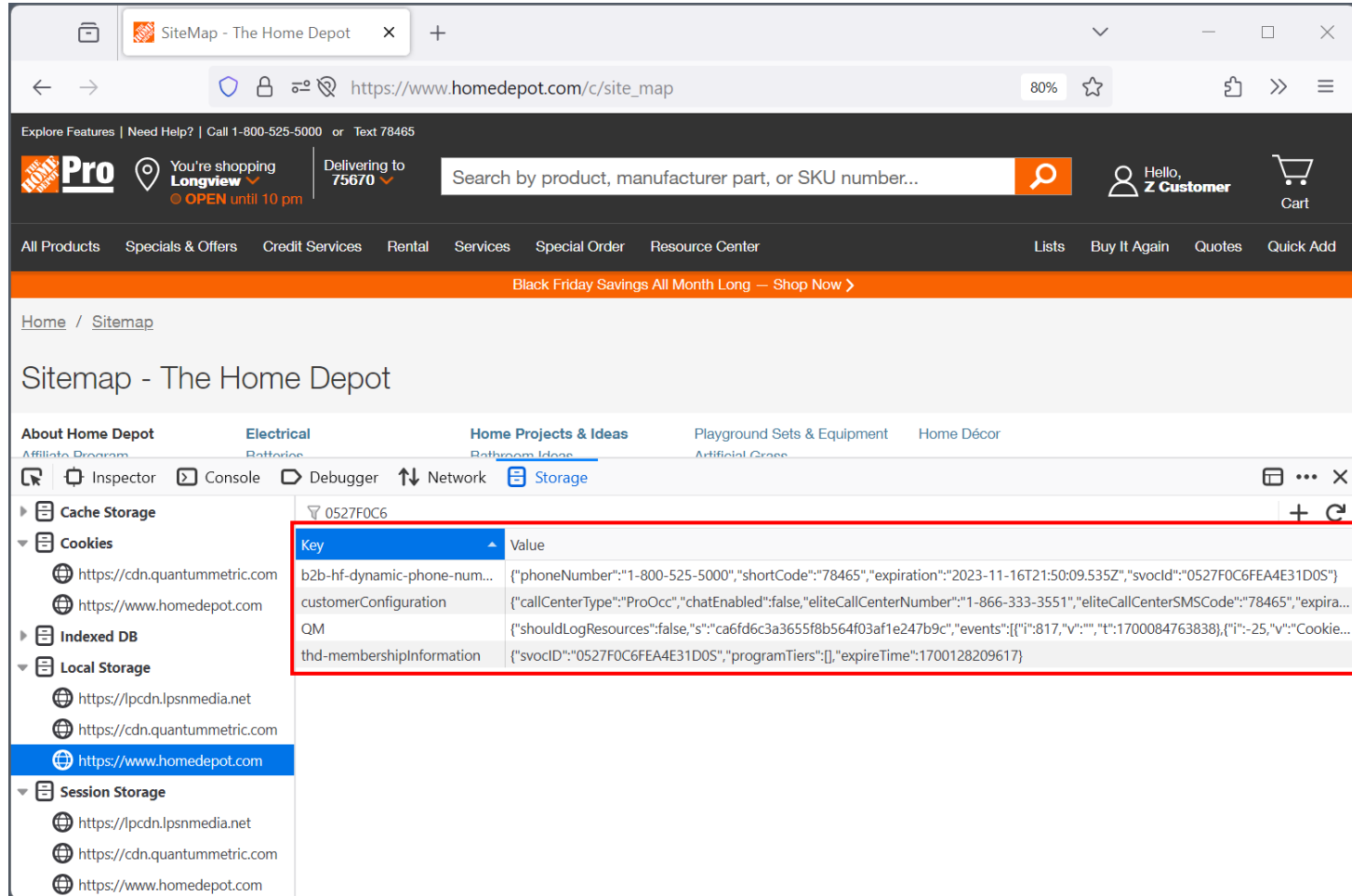
Key	Value
0427EECDDDF1CD740U	{\"numberOfServiceAccounts\":0,\"timestamp\":1700086884182}
__paypal_storage__	{\"id\":\"uid_2a13e47951_mdu6mzk6mtu\",\"__session__\":{\"guid\":\"uid_316361be48_mdu6ntk6mjg\",\"created\":1700027968100},\"experimen...
_meta_enrichmentService_use...	{\"value\":\"not found\",\"expires\":\"2023-11-16T03:26:35.775Z\"}
b2b-hf-dynamic-phone-num...	{\"phoneNumber\":\"1-800-525-5000\",\"shortCode\":\"78465\",\"expiration\":\"2023-11-16T21:50:09.535Z\",\"svocId\":\"0527F0C6FEA4E31D05\"}
BTT_Collect	{\"value\":\"on\",\"expires\":\"1700086620224\"}
BTT_GUID_PV	{\"GUID\":\"531626447404975825\",\"cartValDOY\":\"318\",\"cartVal\":\"0\",\"ajaxCartVal\":\"0\",\"ajaxCartValDOY\":\"318\"}
BTT_WCD_Collect	{\"value\":\"off\",\"expires\":\"1700087597031\"}
BTT_X0siD	{\"value\":\"541756187758760199\",\"expires\":\"1700087597031\"}
C12	{\"value\":\"z_customer1%40b.org\",\"expiry\":\"Thu, 14 Nov 2024 21:49:56 GMT\"}
C13	{\"value\":\"Z%20CUSTOMER\",\"expiry\":\"Thu, 14 Nov 2024 21:49:56 GMT\"}
checkoutPromptsDisplayInfo	{\"orderId\":\"HD100066957768\",\"cartTotal\":\"\$25.94\",\"cartCount\":\"2\",\"image\":\"https://images.thdstatic.com/productImages/554a3f25-6...
customerConfiguration	{\"callCenterType\":\"ProOcc\",\"chatEnabled\":false,\"eliteCallCenterNumber\":\"1-866-333-3551\",\"eliteCallCenterSMSCode\":\"78465\",\"expira...
deviceInfo1	{\"cpuCores\":\"16\",\"deviceClassification\":\"2\",\"webgl2Supported\":true}

Filtering the results in the same screen by the Pro user ID “052F0C6,” the b2b-hf-dynamic-phone-number, customerConfiguration, QM, and thd-membershipinformation cookies in the Local Storage area are shown below, showing they all contain references to the identified user ID:

30

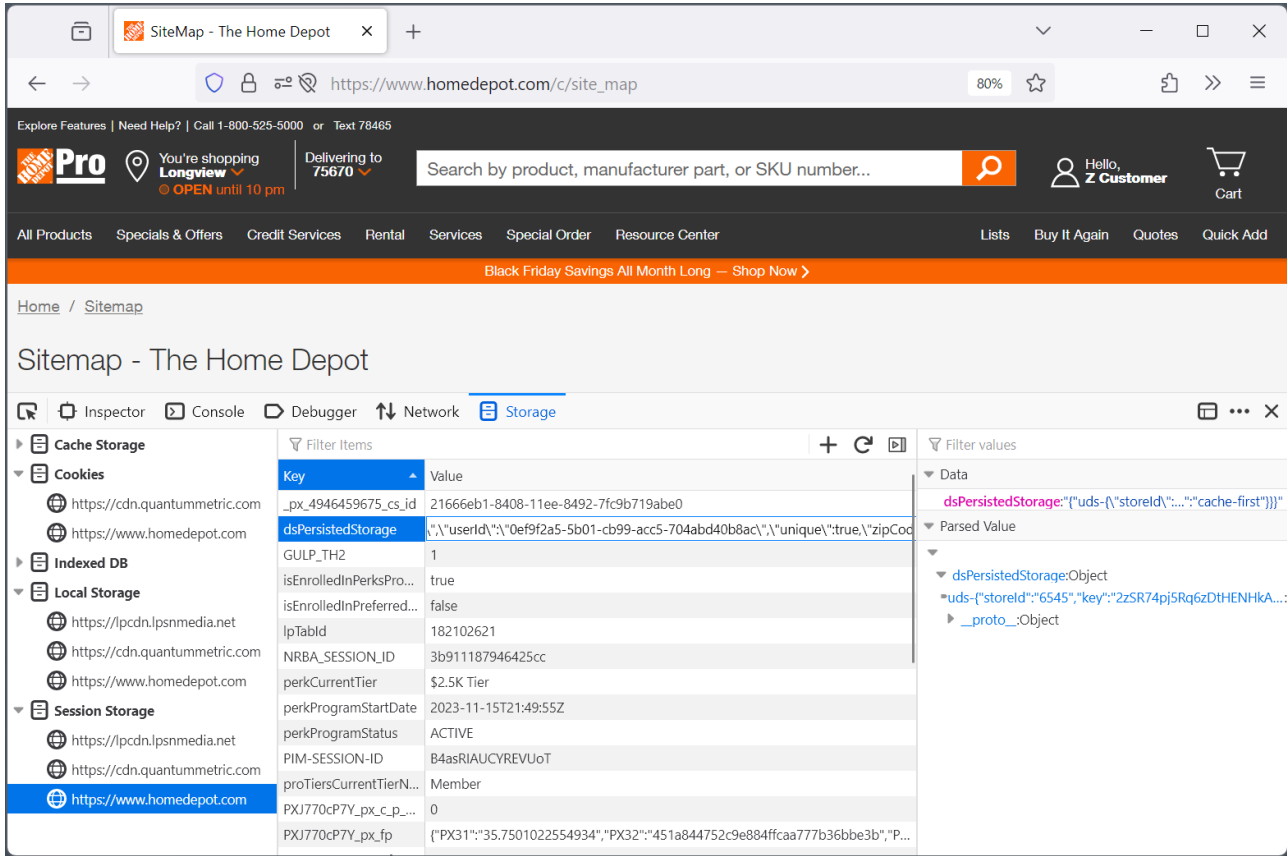
Home Depot
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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



The Accused Instrumentalities also cause cookies to be stored in session storage (dsPersistedStorage).

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



The dsPersistedStorage shows a value of “0ef9f2a5...”, showing that it contains the device ID in its userId field, rather than the Pro user ID “052F0C6...” as seen in the Local Storage cookies above. (Enlarged from above):

dsPersistedStorage {\"userId\": \"0ef9f2a5-5b01-cb99-acc5-704abd40b8ac\", \"un

The Accused Instrumentalities may also cause additional cookies to be stored on a client device. For example, the Accused Instrumentalities may cause cookies such as “QM” and “gpc” cookies (JSON data structures) to be stored in

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Local Storage after a user logs in, and may store the same user ID value that is stored in the THD_USER or THD_CUSTOMER cookie.

As a fourth example, when a user clicks on the cart icon, the Accused Instrumentalities cause a THD_CART cookie (JSON data structure) to be stored in Local Storage. If the cart contains an item, or if a user adds an item to the cart, the Accused Instrumentalities also cause a checkoutPromptsDisplayInfo cookie (JSON data structure) to be stored in Local Storage. If the user is logged in, THD_CART and checkoutPromptsDisplayInfo will store the same user ID value that is stored in the THD_USER (Personal Account) or THD_CUSTOMER (Pro Account) cookie.

For example, a non-logged-in user viewing the homedepot.com site without visiting the user’s cart shows that no THD_CART cookie exists.

The screenshot shows the Home Depot website's Sitemap page. The browser's developer tools are open, displaying the Local Storage for the URL https://www.homedepot.com. The Local Storage contains several entries related to the THD user ID.

Key	Value
thd3276851z-0	0
thd3276851z-campaign	{"value":"","expires":"1701379560644"}
thd3276851z-campMedium	{"value":"","expires":"1701379560644"}
thd3276851z-campSource	{"value":"Direct","expires":"1701379560644"}
thd3276851z-datacenter	{"value":"Default","expires":"1701379560644"}

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Once the user visits their cart, the Accused Instrumentalities cause a THD_CART cookie to be saved on the client device, even without any items in the cart.

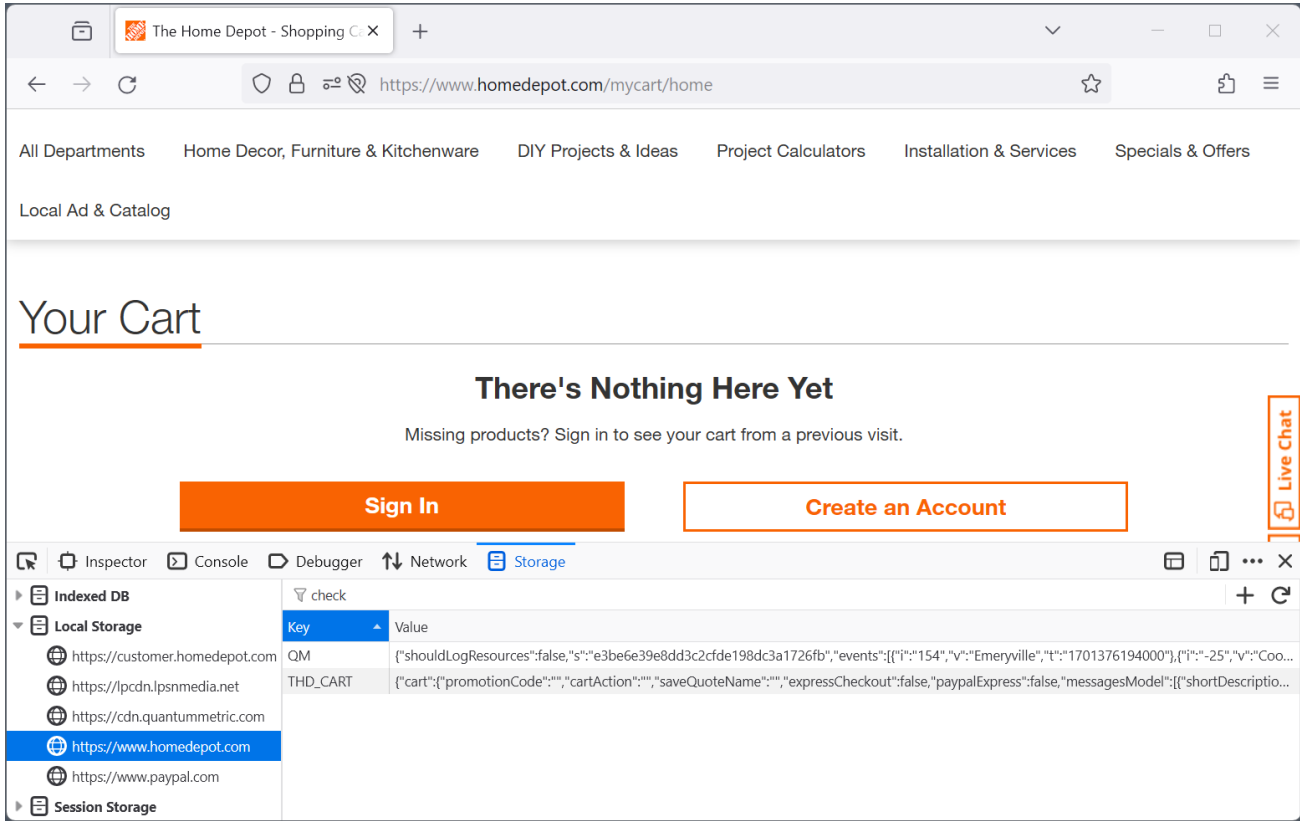
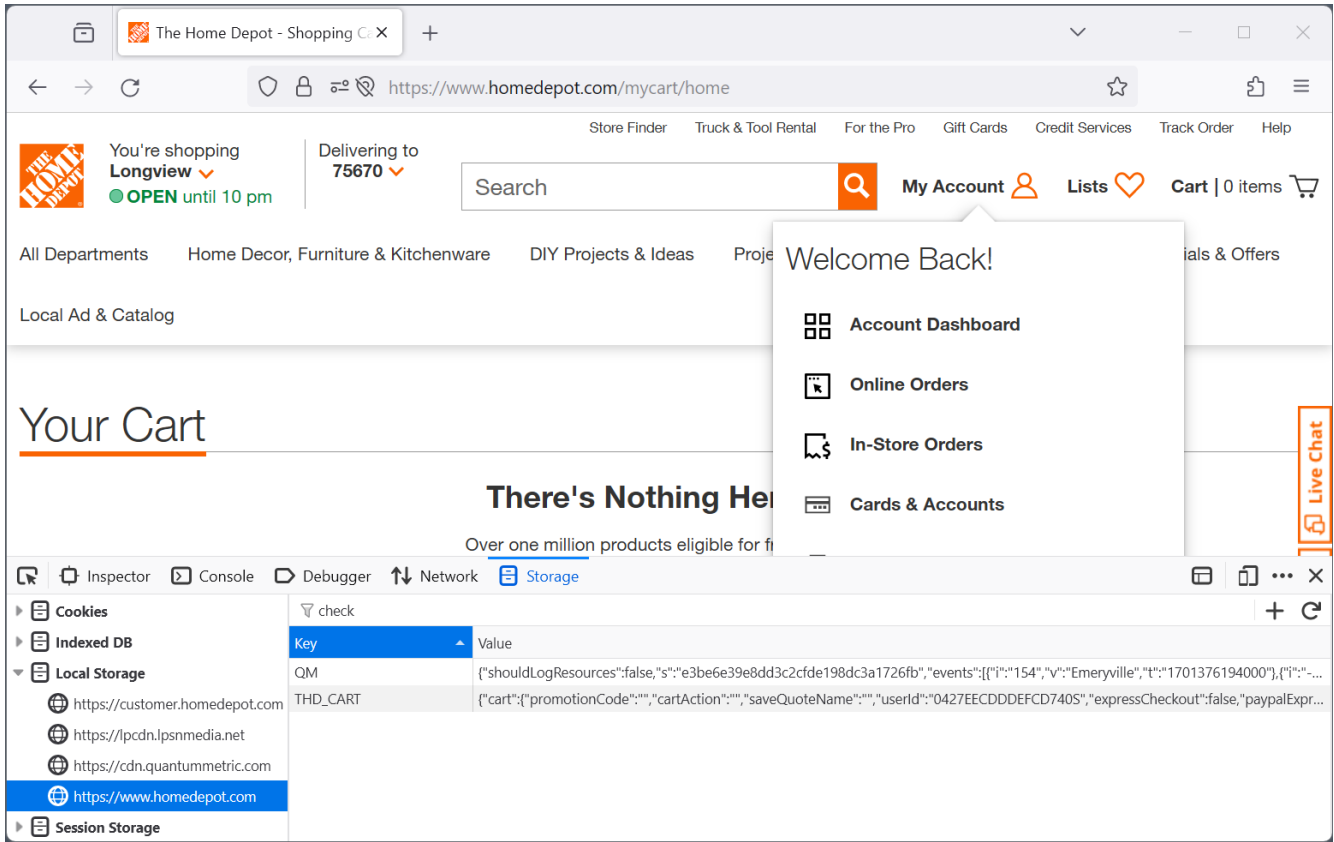


Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

After logging in, the THD_CART cookie is overwritten to add the user ID (0427EE...)

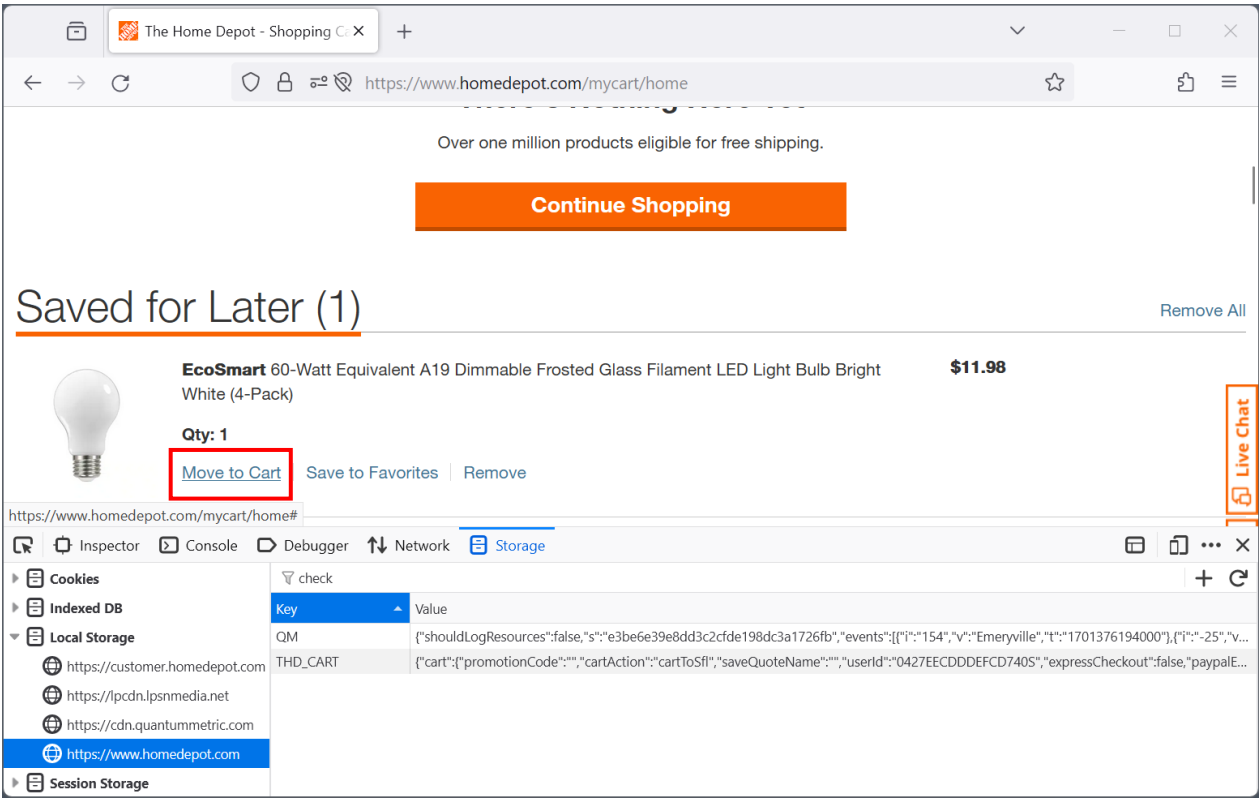


Expanded:

THD_CART	<pre>{\"cart\":{\"promotionCode\":\"\",\"cartAction\":\"\",\"saveQuoteName\":\"\",\"userId\":\"0427EECDDDEFCD740S\", \"</pre>
----------	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The user may add an item to their cart – here, a lightbulb, by selecting “move to cart” option.



After adding a lightbulb to a user’s cart, the THD_CART cookie is updated and other cookies are also created, such as the checkoutPromptsDisplayInfo cookie, which also contains the user ID value that is also present in THD_USER.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The screenshot shows the Home Depot website's checkout process. The browser window displays the URL <https://www.homedepot.com/mycart/home>. The main content area is divided into two sections: 'Your Cart (1)' and 'Your Order'.

Your Cart (1)

- Remove All Items
- Delivery**
- 75670 (1 item)
- Your Delivery Cost: FREE**

Your Order

- Subtotal** \$11.98
- Delivery** FREE
- Sales Tax** (determined in later step) ---
- Total** \$11.98

Below the order summary, there is a section for 'EcoSmart 60-Watt Equivalent A19 Dimmable Frosted Glass Filament LED' bulbs, priced at \$11.98. A note indicates that delivery fees are calculated at the lowest rate available.

The browser's developer tools are open, showing the 'Local Storage' tab. The storage contains a single entry with the key '0427EE' and a value representing a JSON object with cart details, including the number of service accounts, timestamp, order ID, and cart total.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Expanded:

Key	Value
0427EECDDDF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1701384356661}
checkoutPromptsDisplayInfo	{"orderId":"HD100066957768","cartTotal":"\$11.98","cartCount":"1","image":"https://images.thdstatic.com/productImages/554a3f25-6...
QM	{"shouldLogResources":false,"s":"e3be6e39e8dd3c2cfde198dc3a1726fb","events":{"i":"154","v":"Emeryville","t":"1701376194000"},"i":...
THD_CART	{"cart":{"promotionCode":"","cartAction":"sflToCart","saveQuoteName":"","userId":"0427EECDDDEFCD740S","orderId":"HD100066957...

The Home Depot - Shopping

https://www.homedepot.com/mycart/home

Your Cart (1)

Remove All Items

Delivery

75670 (1 item)

Your Delivery Cost: FREE

Your Order

Subtotal

\$11.98

Delivery

FREE

Sales Tax (determined in later step)

Total

\$11⁹⁸

Have a promo code?

Live Chat

EcoSmart 60-Watt Equivalent A19

\$11.98

Dimmable Frosted Glass Filament LED

* Delivery fees are calculated at the lowest rate available.

Inspector Console Debugger Network Storage

Local Storage

0427ee

Key	Value
https://www.google.com	
https://www.homedepot.com	0427EECDDDF1C... {"numberOfServiceAccounts":0,"timestamp":1701414809306}
https://customer.homedepot.com	checkoutPrompts...
https://cdn.quantummetric.com	QM {"shouldLogResources":false,"s":"34e6714e0361f20752bc9128003d0fb0","event...
https://lpcdn.lpsnmedia.net	THD_CART {"cart":{"promotionCode":"","cartAction":"sflToCart","saveQuoteName":"","userId":...
https://www.sandbox.paypal.com	

Session Storage

checkoutPromptsDisplayInfo: Object

orderId: "HD100066957768"

cartTotal: "\$11.98"

cartCount: "1"

image: "https://images.thdst...960wesd02-64_400.jpg"

customerId: "0427EECDDDEFCD740S"

userId: "0427EECDDDF1CD740U"

__proto__: Object

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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	The THD_CART cookie is a JSON data structure holding shopping cart related information, which is different from the THD_USER cookie's base64 encoded string. When the user is logged in, the THD_CART cookie and the checkoutPromptsDisplayInfo also contains the same user ID seen in the decoded THD_USER cookie ("0427EE...") The first cookie of the first type is stored in a first client device browser storage area and the second cookie of the second type is stored in a second client device browser storage area different from the first client device browser storage area. For example, as described above, the THD_USER is a different type of cookie than the THD_CART cookie since at least THD_USER is base64 encoded string and THD_CART is a JSON data structure. THD_USER is also stored in the cookies area of the client device, whereas THD_CART is stored in local storage. An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.
1[b] based at least in part on the network resource request from the client device corresponding to the first cookie of the first type caused to be stored at the client device during the first previous network session, determine	The Accused Instrumentalities' one or more processors, based at least in part on the network resource request from the client device corresponding to the first cookie of the first type caused to be stored at the client device during the first previous network session, determines information that was encoded and stored in the client device. As described for element 1[a], any of the cookies in any of the three browser storage areas can be a first cookie of the first type stored at the client device during the first previous network session. As one example, based at least in part on the network resource request from the client device corresponding to any of the cookies stored in the Cookie Storage area ("thda.u," "THD_USER," "THD_USER_SESSION," "THD_PERSIST," "THD_CUSTOMER,"), the Accused Instrumentalities' one or more processors determine information that was encoded and stored in the client device during a previous network session, such as whether a user has previously visited the site. As a first example, based at least in part on the network resource request from the client device corresponding to any of the cookies stored in the Cookie Storage area ("thda.u," "THD_USER," "THD_USER_SESSION," "THD_PERSIST," "THD_CUSTOMER,"), Home Depot determines information that was encoded and stored in the client device, such as a user ID or device ID. For example, as shown in element 1[a], a network resource request from the client causes Home Depot servers to determine information (such as a device ID ("0ef9f2a5...")) that was encoded and stored in the thda.u cookie in the client device.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

information
that was
encoded and
stored in the
client device;

The screenshot shows the Home Depot website with the Chrome DevTools Network tab open. The page header features the Home Depot logo, navigation links, and a search bar. The main content area displays a 'Black Friday Savings' banner with a large orange bow graphic and a '\$2300 OFF*' promotion. The DevTools Network tab is open, showing a list of cookies and local storage items. The cookies list includes items like 'sessionid', 'QuantumMe...', 's_sess', and 's_sq'. The local storage list includes items like 'THD_CACHE...', 'THD_LOCAL...', 'THD_NR', 'THD_PERSIST', 'THD_SESSION', 'thda.m', 'thda.s', 'thda.u', and 'thx_guid'.

For example, as shown in element 1[a], a network resource request from the client causes Home Depot servers to determine information (such as a user ID) that was encoded and stored in the THD_USER_SESSION cookie in the client device.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

THD_USER_SESSION	eyJzljoiMDQyN0VFQ0RERE...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
THD_USER	eyJjdXN0b21clR5cGUiOiJC...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
thda.m	2807178222514005628021...	.homedepot.com	Session
thda.s	b2982b8c-9591-f7c5-ae40-...	.homedepot.com	Session
thda.u	0ef9f2a5-5b01-cb99-acc5-...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT

The THD_USER_SESSION value includes data that is encoded in base 64. Decoding it provides the following result, showing that the THD_USER_SESSION cookie includes a user ID.

```
{
  "s": "0427EECDDDF1CD740U:11eb45ac-ae7-4f9d-b97c-933761f31e7b",
  "u": "0427EECDDDF1CD740U",
  "i": "3wZWXxWhPx6P9iz0s0DBfFX3AIs.*AAJTSQACMDIAAINLABxVN0JNbHlzYy9OZGxhQjFDQnRTUE95S0V5dTA9AAR0eXBIAANDVFMAAIMxAAIwMQ..*",
  "c": "B2C",
  "t": "0427EECDDDEFCD740S",
  "v": "1700018787584",
  "k": "y"
}
```

For example, as shown in element 1[a], a network resource request from the client causes Home Depot servers to determine information (such as a user ID) that was encoded and stored in the THD_USER cookie in the client device.

THD_USER_SESSION	eyJzljoiMDQyN0VFQ0RERE...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
THD_USER	eyJjdXN0b21clR5cGUiOiJC...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
thda.m	2807178222514005628021...	.homedepot.com	Session
thda.s	b2982b8c-9591-f7c5-ae40-...	.homedepot.com	Session
thda.u	0ef9f2a5-5b01-cb99-acc5-...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT

The THD_USER value is encoded in base 64. Decoding it provides the following result, showing that the THD_USER cookie includes the customer's svocCustomerId, logonId, and userId.

```
{
  "customerType": "B2C",
  "svocCustomerId": "0427EECDDDEFCD740S",
  "logonId": "z_user1@b.org",
  "userId": "0427EECDDDF1CD740U"
}
```

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	For example, as shown in element 1[a], a network resource request from the client causes Home Depot servers to determine information (such as a user email) that was encoded and stored in the THD_PERSIST cookie in the client device. THD_PERSIST: "C12=z_user1@b.org; C12_EXP=1731554787;;C13=self; C13_EXP=1731554787" THD_SESSION: "" For example, as shown in element 1[a], a network resource request from the client causes Home Depot servers to determine information (such as a user ID) that was encoded and stored in the THD_CUSTOMER cookie in the client device. <pre>{ "s": "0527F0C6FEAC631D0U:b203c1c6-13ce-42b6- b744-3cff7a1a01f8" "u": "0527F0C6FEAC631D0U" "i": "4mCgVUEmaxyRr78e5YWz6zwHzY.*A AJTSQACMDIAAINLABxjTkt5S2xxai9nTIFXY2N2eHdNYjlyakNsUDg9AAR0eXBIAANDVFMAAI MxAAIwMQ..*", "c": "B2B", "g": "Contractors", "t": "0527F0C6FEA4E31D0S", "r": "ADMIN", "v": 17000 84996180, "k": "y" }</pre> As a second example, a network resource request from the client causes Home Depot servers to determine information (such as a userId or user email) that was encoded and stored in the Local Storage directly or within the C12 cookie in Local Storage in the client device.
--	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

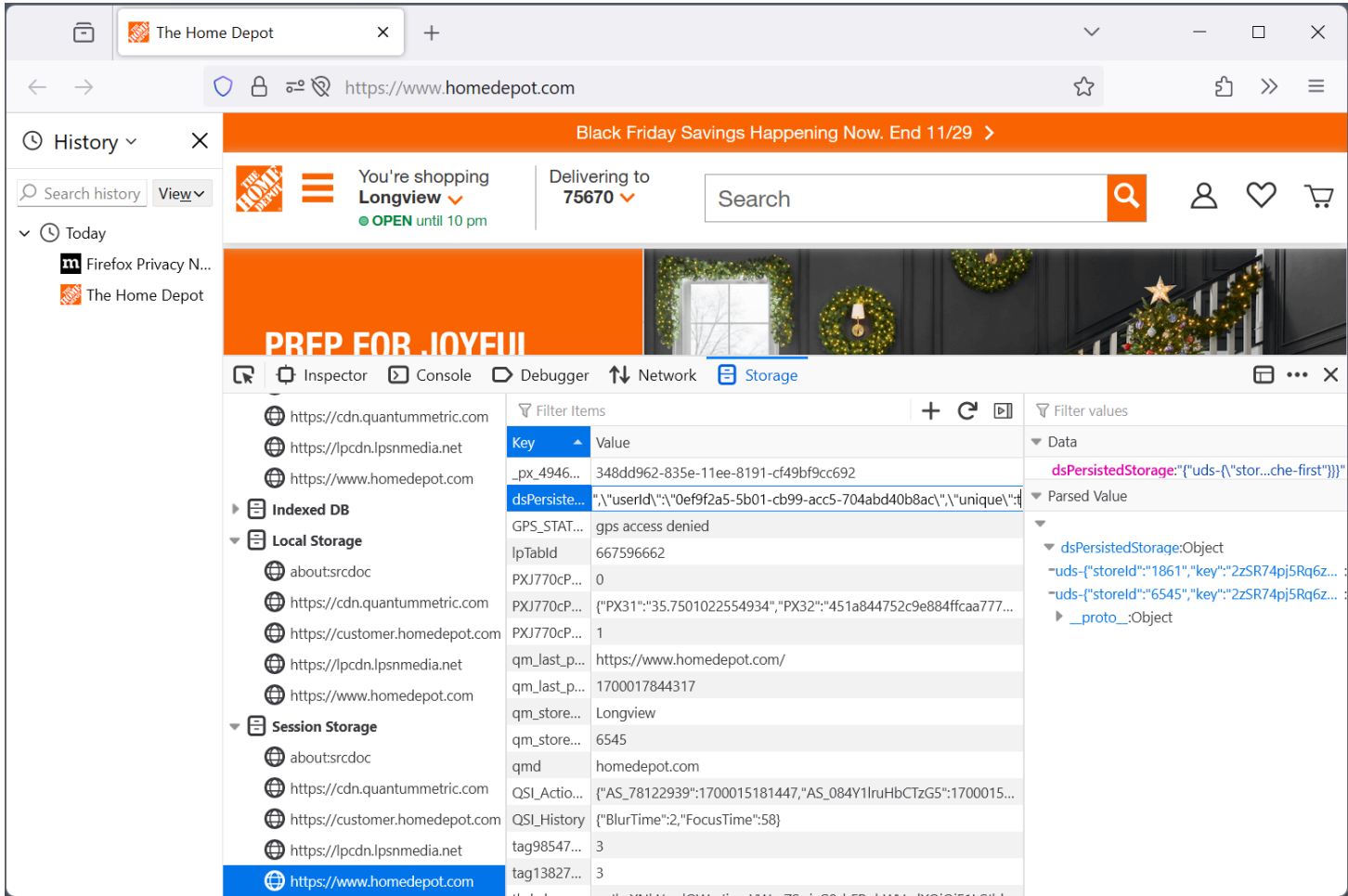
The screenshot shows the Home Depot website with the browser's developer tools open. The 'Local Storage' section is expanded, showing a table of key-value pairs. Two entries are highlighted with red boxes: one with key '0427EECDFFF1CD740U' and another with key 'C12'. The 'Cookies' section is also visible, showing a table of cookies. The website header includes the Home Depot logo, navigation links, and a search bar. The main content area displays 'Sitemap - The Home Depot'.

Key	Value
0427EECDFFF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1700025994177}
_meta_enrichmentService_user_failure	{"value":"","expires":"","2023-11-16T03:26:35.775Z"}
BTT_Collect	{"value":"","expires":"","1700021754180"}
BTT_GUID_PV	{"GUID":"","531626447404975825","cartValDOV":"","318","cartVal":"","0"}
BTT_WCD_Collect	{"value":"","off","expires":"","1700021754180"}
BTT_X0SiD	{"value":"","345589163605768860","expires":"","1700021754180"}
C12	{"value":"","z_user1%40b.org","expiry":"","Thu, 14 Nov 2024 03:26:27 GMT"}
C13	{"value":"","self","expiry":"","Thu, 14 Nov 2024 03:26:27 GMT"}
deviceInfo1	{"cpuCores":16,"deviceClassification":2,"webgl2Supported":true}
NRBA_SESSION	{"value":"","9a3b89abad8b3869","inactiveAt":1700021751767,"expiresAt":1700029513135,"updatedAt":1700019951935,"ses..."}
PXJ770CP7Y_px_fp	{"PX31":"","35.7501022554934","PX32":"","451a844752c9e884ffcaa777b36bbe3b","PX274":"","17b9e238678e960ac4cb6fc58bd2..."}

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	Enlarged (showing userId “0427EE...” and email “z_user...” as the value of key C12): <table border="1"> <thead> <tr> <th>Key</th><th>Value</th></tr> </thead> <tbody> <tr> <td>0427EECDDDF1CD740U</td><td>{"numberOfServiceAccounts":0,"timestamp":1700025994177}</td></tr> <tr> <td>_meta_enrichmentService_user_failure</td><td>{"value":"not found","expires":"2023-11-16T03:26:35.775Z"}</td></tr> <tr> <td>BTT_Collect</td><td>{"value":"on","expires":"1700019732438"}</td></tr> <tr> <td>BTT_GUID_PV</td><td>{"GUID":"531626447404975825","cartValDOY":"318","cartVal":"0"}</td></tr> <tr> <td>BTT_WCD_Collect</td><td>{"value":"off","expires":"1700020595612"}</td></tr> <tr> <td>BTT_X0siD</td><td>{"value":"345589163605768860","expires":"1700020595612"}</td></tr> <tr> <td>C12</td><td>{"value":"z_user1%40b.org","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}</td></tr> <tr> <td>C13</td><td>{"value":"self","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}</td></tr> </tbody> </table> As a third example, a network resource request from the client causes Home Depot servers to determine information (such as a device ID stored in the userId field (“0ef9f2a5...”) that was encoded and stored in the dsPersistedStorage within the Session Storage in the client device.	Key	Value	0427EECDDDF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1700025994177}	_meta_enrichmentService_user_failure	{"value":"not found","expires":"2023-11-16T03:26:35.775Z"}	BTT_Collect	{"value":"on","expires":"1700019732438"}	BTT_GUID_PV	{"GUID":"531626447404975825","cartValDOY":"318","cartVal":"0"}	BTT_WCD_Collect	{"value":"off","expires":"1700020595612"}	BTT_X0siD	{"value":"345589163605768860","expires":"1700020595612"}	C12	{"value":"z_user1%40b.org","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}	C13	{"value":"self","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}
Key	Value																		
0427EECDDDF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1700025994177}																		
_meta_enrichmentService_user_failure	{"value":"not found","expires":"2023-11-16T03:26:35.775Z"}																		
BTT_Collect	{"value":"on","expires":"1700019732438"}																		
BTT_GUID_PV	{"GUID":"531626447404975825","cartValDOY":"318","cartVal":"0"}																		
BTT_WCD_Collect	{"value":"off","expires":"1700020595612"}																		
BTT_X0siD	{"value":"345589163605768860","expires":"1700020595612"}																		
C12	{"value":"z_user1%40b.org","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}																		
C13	{"value":"self","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}																		

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



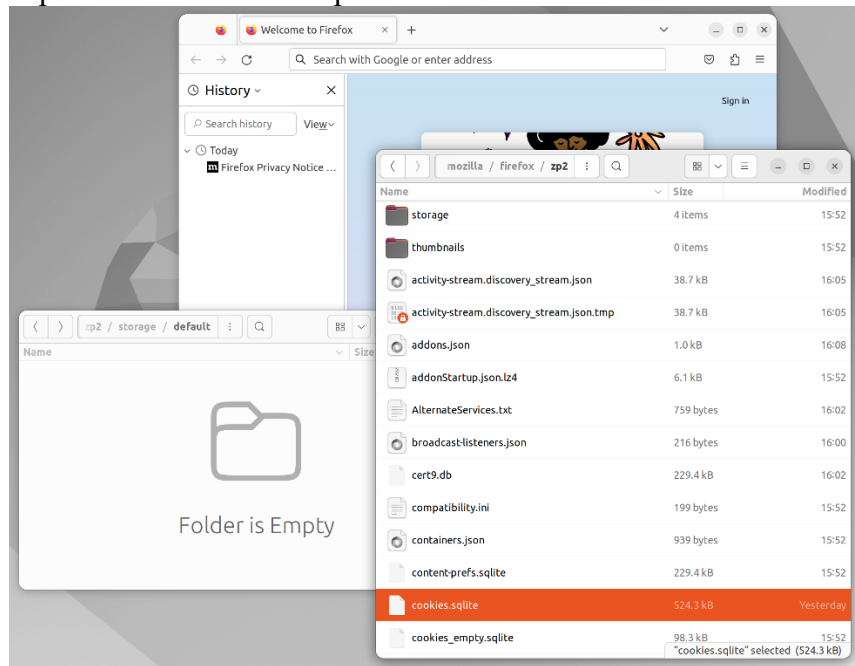
(Enlarged from above screenshot)

`dsPersiste... \"\\\"userId\\\":\\\"0ef9f2a5-5b01-cb99-acc5-704abd40b8ac\\\"`

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

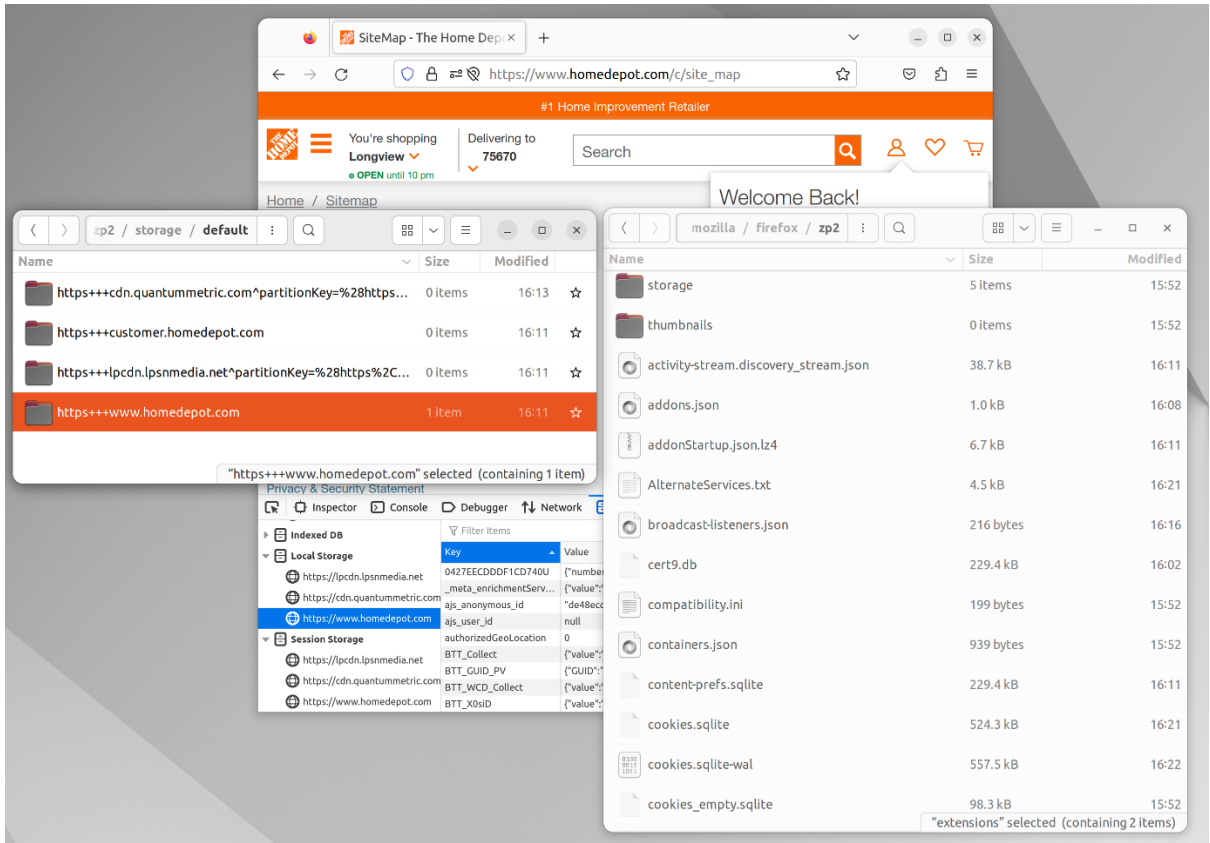
The Accused Instrumentalities determine information that was encoded and stored in the client device. For example, copying the cookies.sqlite database from [1] a first computer that stored cookies for a user who had logged in to homedepot.com to [2] a second computer that had never before been used to visit homedepot.com, then visiting homedepot.com on that second computer causes the Accused Instrumentalities to store, on the second computer, in the “Local Storage” area, the cookies described previously, such as a cookie with a name that matches the user ID stored in the THD_USER or THD_CUSTOMER cookie.

For example, as shown below, a second computer has an empty Local Storage folder. A cookies.sqlite database is then copied from the first computer.



After the cookies.sqlite database is transferred, when the user visits homedepot.com, the Accused Instrumentalities cause cookies to be downloaded in the local storage such as the user ID key of the user on the first computer (“0427EE...”).

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



(Enlarged from above)

 **Local Storage**

 <https://lpcdn.lpsnmedia.net>

Key

0427EECDDDF1CD740U

This shows that the Accused Instrumentalities are able to determine information that was encoded and stored in the cookies.sqlite database (Cookies storage area) with no other information.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Similarly, copying cookies from a logged in Pro Account user to a second computer shows the presence of the THD_CUSTOMER user ID in both Local Storage and Session Storage.

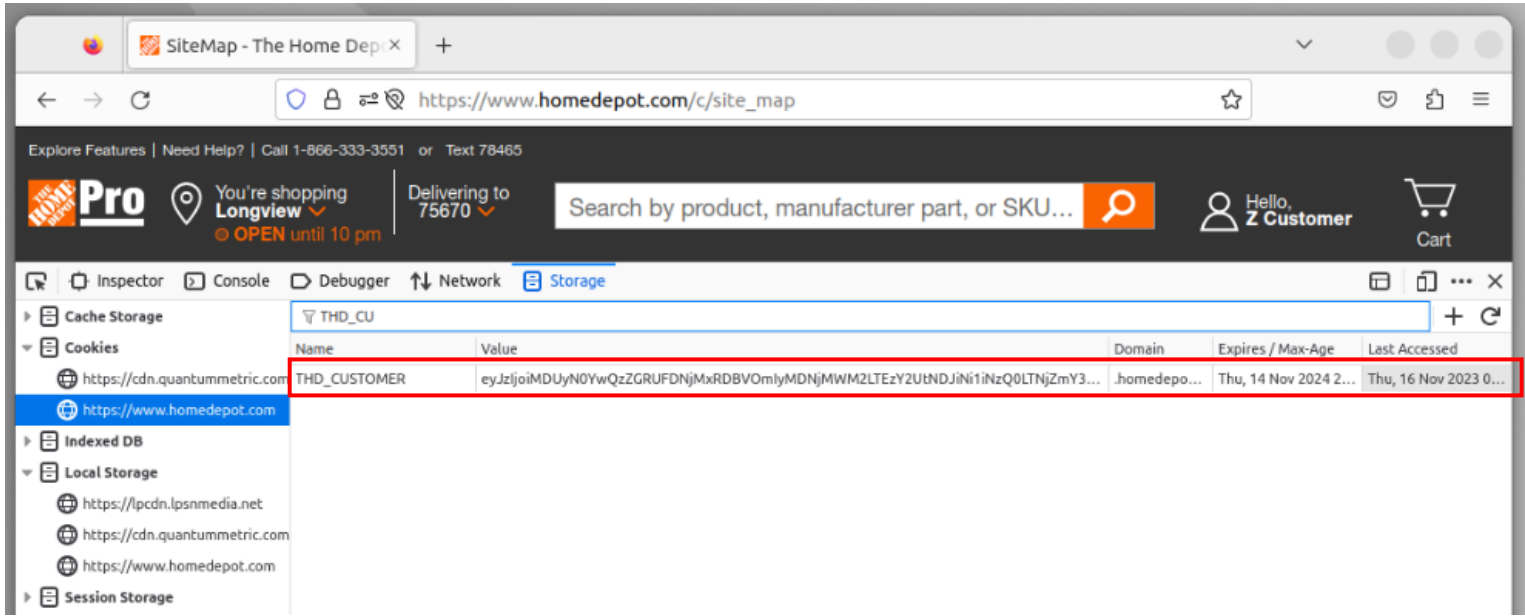
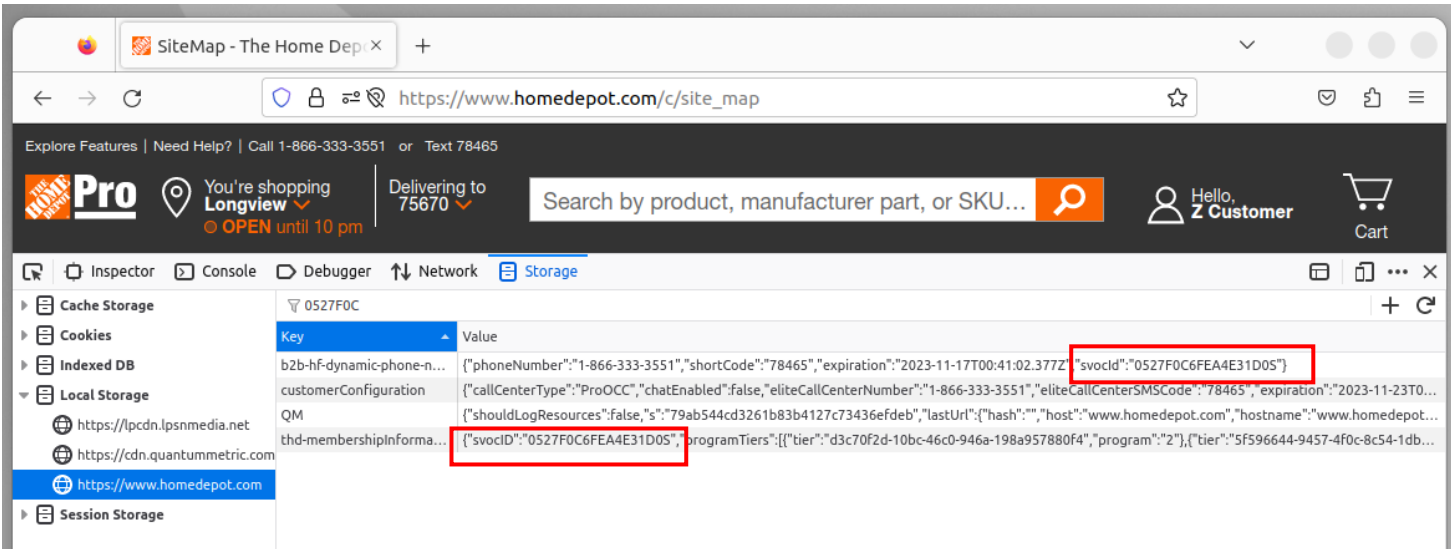


Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

User ID in Local Storage:

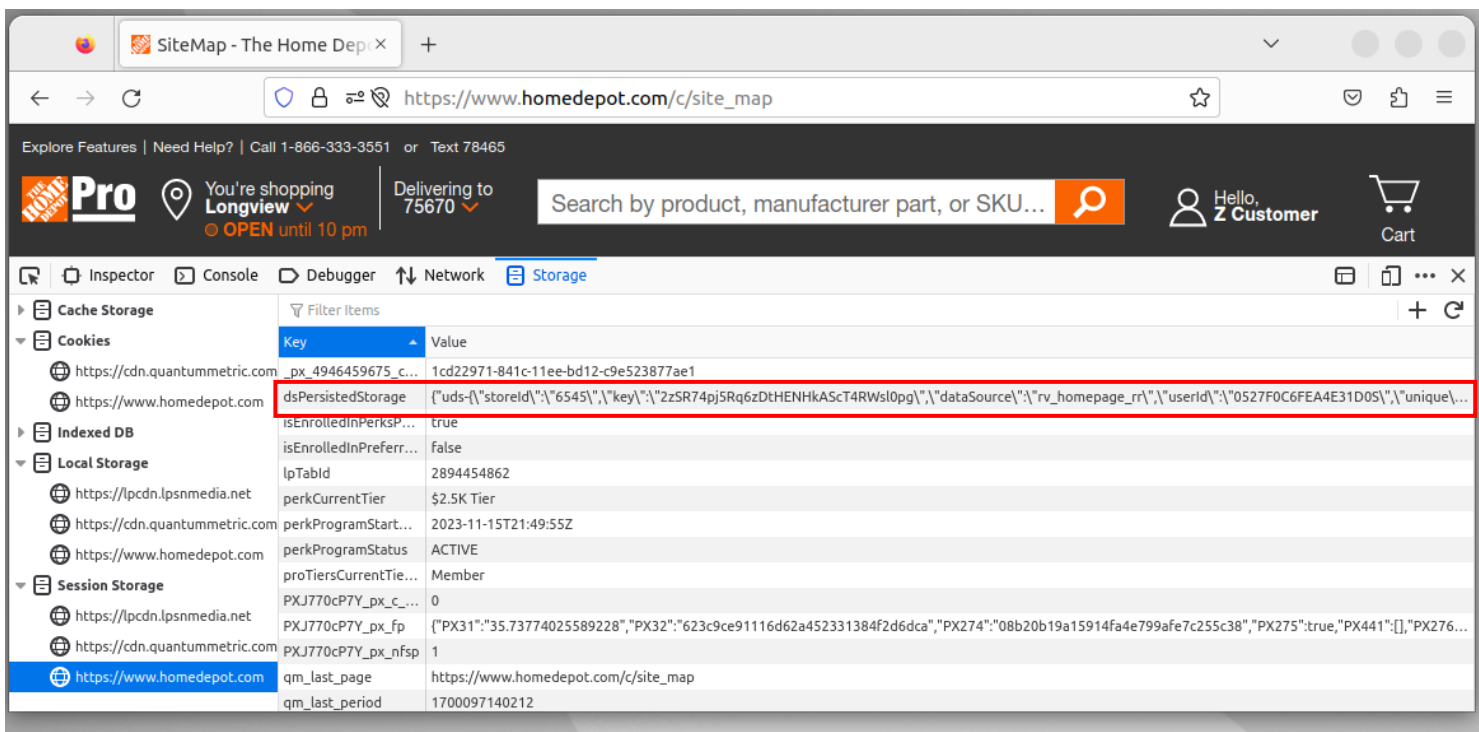


Enlarged:

`["svocID":"0527F0C6FEA4E31D05"]`

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

User ID in Session Storage:



Enlarged:

dsPersistedStorage ... "userId\":"0527F0C6FEA4E31D0S\"

The value in the cookies was encoded and stored in the client device. For example, the value in at least the THD_USER, THD_USER_SESSION, and THD_CUSTOMER cookies is stored in base64 encoded format, as described above.

THD_USER	eyJjdXN0b21ldlR5cGUiOiJkLmomedepot...	THD_USER_SESSION	eyJJzloiMDQyN0VFcLmomedepot...
----------	---------------------------------------	------------------	--------------------------------

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

THD_CUSTOMER: "eyJzIjoiMDUyN0YwQzZGRUFDNjMxRDBVomlyMDNjMWM2LTEzY2UtNDJiNi1iNzQ0LTNjZmY3YTZhMDFmOCIsInUiOiIwNTI3RjBDNkZFQUM2MzFEMFUilCjpljoiNG1DZ1ZVRW1heHlScjc4ZTVZV3o2endlenlZLipBQUpUU1FBQ01ESUFBbE5MQUJ4alRrdDVTMnh4YWk5blRsRlhZMk4yZUhkTlIqbHlha05zVURnOUFBUEjBIWEJsQUFORFZGTUFBbE14QUFjd01RLi4qliwiYyI6IklYQilslmciOiJDb250cmFjdG9ycylsluQiOiIwNTI3RjBDNkZFQTRFMzFEMFMiLCJyIjoiQURNSU4iLCJ2IjoxNzAwMDg0OTk2MTgwLClrIjoieSJ9.Baaf81K2KXN5T01Ecys6JwleLCReRpvBDy--4_8HN29Y8YmZ8ewliZPPjuHH45RqEMb2EURNf_MpszDWwJUacQjlmX0bdemR4hDtf1OByrHWUjyqKSmwpO8bh1alZKKmM8ugrjXK7tnS1BPzid6qlf4hMWtMeGw17wbQvImjxaA"

As an additional example, in browsers such as Chrome, cookies are stored in encrypted format. When Chrome is in use, Chrome decrypts the cookies so that they can be used normally, which is why the cookie values are viewable in the Chrome browser debugger tool. In contrast, the cookie names are viewable in the cookies database, but the values are not; instead, the values are stored in encrypted format, in the “encrypted_value” column, and shown as “BLOB”. For example, the “THD_USER” cookie data is viewable in the Chrome debugger tool, but is encrypted in the Chrome cookies database. In the example below, the Chrome browser stores cookies in a sqlite database named “Cookies” and stored at C:\Users\z1\AppData\Local\Google\Chrome\User Data\Default\Network\.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The screenshot displays a Windows desktop with two applications open. The top application is 'DB Browser for SQLite', which is showing a table of cookies. The table has four columns: 'host_key', 'name', 'value', and 'encrypted_value'. The data is as follows:

	host_key	name	value	encrypted_value
4	.homedepot.com	THD_SESSION		BLOB
5	.homedepot.com	thda.u		BLOB
6	.homedepot.com	THD_SSUI_LOG_TOKEN		BLOB
7	.homedepot.com	THD_SSUI_TOKEN		BLOB
8	.homedepot.com	THD_FORCE_LOC		BLOB
9	.homedepot.com	THD_LOCALIZER		BLOB
10	.homedepot.com	THD_PERSIST		BLOB
11	.homedepot.com	THD_TMX_CACHE		BLOB
12	.homedepot.com	THD_USER		BLOB
13	.homedepot.com	THD_USER_SESSION		BLOB
14	.btttaq.com	thd3276851z-BrowserVersion		BLOB

The bottom application is a File Explorer window showing the directory structure of the 'User Data' folder. The 'Network' folder is selected, and its contents are listed in the right pane:

Name	Size	Type	Modified	Attr
Cookies	76 KB	File	Today 1:45 PM	-a----
Cookies-journal	0 bytes	File	Today 1:45 PM	-a----
Network Persistent State	27.9 KB	File	Today 1:45 PM	-a----
NetworkDataMigrated	0 bytes	File	11/19/2023 5:40 PM	-a----
Reporting and NEL	84 KB	File	Today 1:45 PM	-a----
Reporting and NEL-journal	0 bytes	File	Today 1:45 PM	-a----

As another example, Chrome stores “Local Storage” data in encoded format on the client, so that it is viewable when using the Chrome debugger tool but is not viewable by a normal user outside of the debugger tool.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.
1[c] perform a first identification of at least one of the client device and a user of the client device using the first cookie of the first type, wherein the first identification is performed using the first cookie of the first type at least in part by using the determined information that was encoded and stored in the client device;	The Accused Instrumentalities' one or more processors are configured to perform first identification of at least one of the client device and a user of the client device using the first cookie of the first type, wherein the first identification is performed using the first cookie of the first type at least in part by using the determined information that was encoded and stored in the client device. As described above, a “first” cookie may be any of the cookies stored in Cookies, Local Storage, or Session Storage. The Accused Instrumentalities perform a first identification of at least one of the client device and a user of the client using, for example, a stored user ID or user email. For example, the thda.u cookie identifies at least one of the client device and a user of the client using a device ID (“0ef9f2a5...”) that was encoded and stored in the thda.u cookie in the client device. The value of the thda.u cookie in the Cookies storage area identifies the device, and remains the same before any user logs into homedepot.com on a browser, after a user logs in to a user account, after a user logs out, and after a user logs in to a second, Pro user account.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

History

Search history

Today

Firefox Privacy N...

The Home Depot

Black Friday Savings Happening Now. End 11/29

You're shopping Longview

Delivering to 75670

OPEN until 10 pm

Search

UP TO \$2300 OFF*

UP TO \$900 OFF*

Inspector

Console

Debugger

Network

Storage

Cookies

Filter Items

https://customer.homedepot.com

about:srcdoc

https://cdn.quantummetric.com

https://lpcdn.lpsnmedia.net

https://www.homedepot.com

Indexed DB

Local Storage

about:srcdoc

https://cdn.quantummetric.com

https://customer.homedepot.com

https://lpcdn.lpsnmedia.net

https://www.homedepot.com

Session Storage

https://cdn.quantummetric.com

https://customer.homedepot.com

Name	Value	Domain	Expires / Max-Age	Last Accessed
session#670de60d5db5415fb62a724cd8f12...		.homedepot.com	Sun, 16 Nov 2025 02:...	Wed, 15 Nov 2023 02:...
a92b22b03f514f6580adb65cd7ed9d57		.homedepot.com	Wed, 15 Nov 2023 03:...	Wed, 15 Nov 2023 02:...
b8e49b98b87190e41bb1573162e2b7dc		.homedepot.com	Thu, 14 Nov 2024 02:...	Wed, 15 Nov 2023 02:...
%20s_nr365%3D1700015180880-New%7C1...		.homedepot.com	Sat, 14 Nov 2026 02:2...	Wed, 15 Nov 2023 02:...
%20s_pv_pName%3Dhomepage%3B%20s_...		.homedepot.com	Session	Wed, 15 Nov 2023 02:...
%5B%5B%5D%5D		.homedepot.com	Session	Wed, 15 Nov 2023 02:...
THD_CACHE...		.homedepot.com	Mon, 07 Jul 2025 02:2...	Wed, 15 Nov 2023 02:...
THD_CACHE...		.homedepot.com	Thu, 16 Nov 2023 02:...	Wed, 15 Nov 2023 02:...
THD_LOCALI...	%257B%2522WORKFLOW%2522%253A%2...	.homedepot.com	Thu, 14 Nov 2024 02:...	Wed, 15 Nov 2023 02:...
THD_NR	1	.homedepot.com	Thu, 16 Nov 2023 02:...	Wed, 15 Nov 2023 02:...
THD_PERSIST		.homedepot.com	Mon, 07 Jul 2025 02:2...	Wed, 15 Nov 2023 02:...
THD_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:...	Wed, 15 Nov 2023 02:...
thda.m	28071782225140056280210898850812205...	.homedepot.com	Session	Wed, 15 Nov 2023 02:...
thda.s	b2982b8c-9591-f7c5-ae40-f1dad8103f11	.homedepot.com	Session	Wed, 15 Nov 2023 02:...
thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b8ac	.homedepot.com	Sat, 15 Nov 2025 02:2...	Wed, 15 Nov 2023 02:...
thx_guid	5d1be958f853915326b05d073ee31b64	customer.home...	Thu, 19 Oct 2028 02:2...	Wed, 15 Nov 2023 02:...

For example, the THD_USER cookie identifies at least one of the client device and a user of the client using any of a svocCustomerAccountId, loginId, and user ID that was encoded and stored in the THD_USER cookie in the client device.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	<pre> {"customerType":"B2C","svocCustomerAccountId":"0427EECDDEFCD740S", "logonId":"z_user1@b.org","userId":"0427EECDDEF1CD740U"} </pre> For example, the THD_USER_SESSION cookie identifies at least one of the client device and a user of the client using the same user ID value that is stored in the THD_USER cookie (here, “0427EECD ...”) that was encoded in base64 format and stored in the THD_USER_SESSION cookie in the client device. <pre> {"s":"0427EECDDEF1CD740U:11eb45ac-ae7-4f9d- b97c-933761f31e7b","u":"0427EECDDEF1CD740U","i":"3wZWXxWhPx6P9iz 0s0DBfFX3AIs.*AAJTSQACMDIAAINLABxVN0JNbHlZyY9OZGxhQjFDQnRT UE95S0V5dTA9AAR0eXBIAANDVFMAAIMxAAlwMQ..*","c":"B2C","t":"0427E ECDDDEFCD740S","v":1700018787584,"k":"y"} </pre> For example, the THD_PERSIST cookie identifies at least one of the client device and a user of the client using a user email that was encoded and stored in the THD_PERSIST cookie in the client device. <pre> THD_PERSIST: "C12=z_user1@b.org; C12_EXP=1731554787;C13=self; C13_EXP=1731554787" </pre> <pre> THD_SESSION: "" </pre> For example, the THD_CUSTOMER cookie identifies at least one of the client device and a user of the client using a user email that was encoded and stored in the THD_CUSTOMER cookie in the client device.
--	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

```
{
  "s": "0527F0C6FEAC631D0U:b203c1c6-13ce-42b6-b744-3cff7a1a01f8",
  "u": "0527F0C6FEAC631D0U",
  "i": "4mCgVUEmaxyRr78e5YWz6zwHzyY.*A AJTSQACMDIAAINLABxjTkt5S2xxai9nTIFXY2N2eHdNYjlyakNsUDg9AAR0eXBIAANDVFMAAI MxAAIwMQ..*",
  "c": "B2B",
  "g": "Contractors",
  "t": "0527F0C6FEA4E31D0S",
  "r": "ADMIN",
  "v": 1700084996180,
  "k": "y"
}
```

As a second example, the user ID key that was encoded and stored in the Local Storage directly (as key 0427EE...) or the C12 cookie that was encoded and stored in the Local Storage identifies at least one of the client device and a user of the client using a user ID or user email stored in the client device. Further, if the user is logged in with a Pro Account, the C13 cookies stores the user's login name (see 1[a]).

Enlarged (showing userId "0427EE..." and email "z_user..." as the value of key C12):

Key	Value
0427EECDDDF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1700025994177}
_meta_enrichmentService_user_failure	{"value":"not found","expires":"2023-11-16T03:26:35.775Z"}
BTT_Collect	{"value":"on","expires":"1700019732438"}
BTT_GUID_PV	{"GUID":"531626447404975825","cartValDOY":"318","cartVal":"0"}
BTT_WCD_Collect	{"value":"off","expires":"1700020595612"}
BTT_X0siD	{"value":"345589163605768860","expires":"1700020595612"}
C12	{"value":"z_user1%40b.org","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}
C13	{"value":"self","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}

As additional examples, the userID that is stored in the THD_CUSTOMER cookies is also stored in the thd-membershipinformation, b2b-hf-dynamic-phone-number, and customerConfiguration cookies in Local Storage.

As additional examples, the userID that is stored in the THD_USER or THD_CUSTOMER cookies is also stored in the THD_CART and checkoutPromptsDisplayInfo cookies in Local Storage when, for example, a user is logged in and has an item in the user's cart.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

As additional examples, the userID that is stored in the THD_USER or THD_CUSTOMER cookies may also be stored in QM and gpc cookies in the Local Storage area.

As a third example, the dsPersistedStorage cookie within the Session Storage identifies at least one of the client devices and a user of the client using a device ID ("0ef9f2a5...") that was encoded and stored in the dsPersistedStorage cookie within the Session Storage in the client device. The value of the dsPersistedStorage cookie in session storage identifies the device by including the same value as the thda.u cookie when, for example, no user is logged in to homedepot.com. In other situations, such as when a user is logged into homedepot.com, the value of the dsPersistedStorage cookie instead includes the same value as the THD_USER or THD_CUSTOMER cookie and identifies the user of the device.

dsPersiste... "\",\"userId\": \"0ef9f2a5-5b01-cb99-acc5-704abd40b8ac\"

As the user is recognized through information present in any of the cookies that track a user ID or a device ID, by the Accused Instrumentalities' servers, the user will see a "Welcome Back!" message displayed. Here, the Accused Instrumentalities recognize the user by at least one of THD_USER_SESSION or THD_USER.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

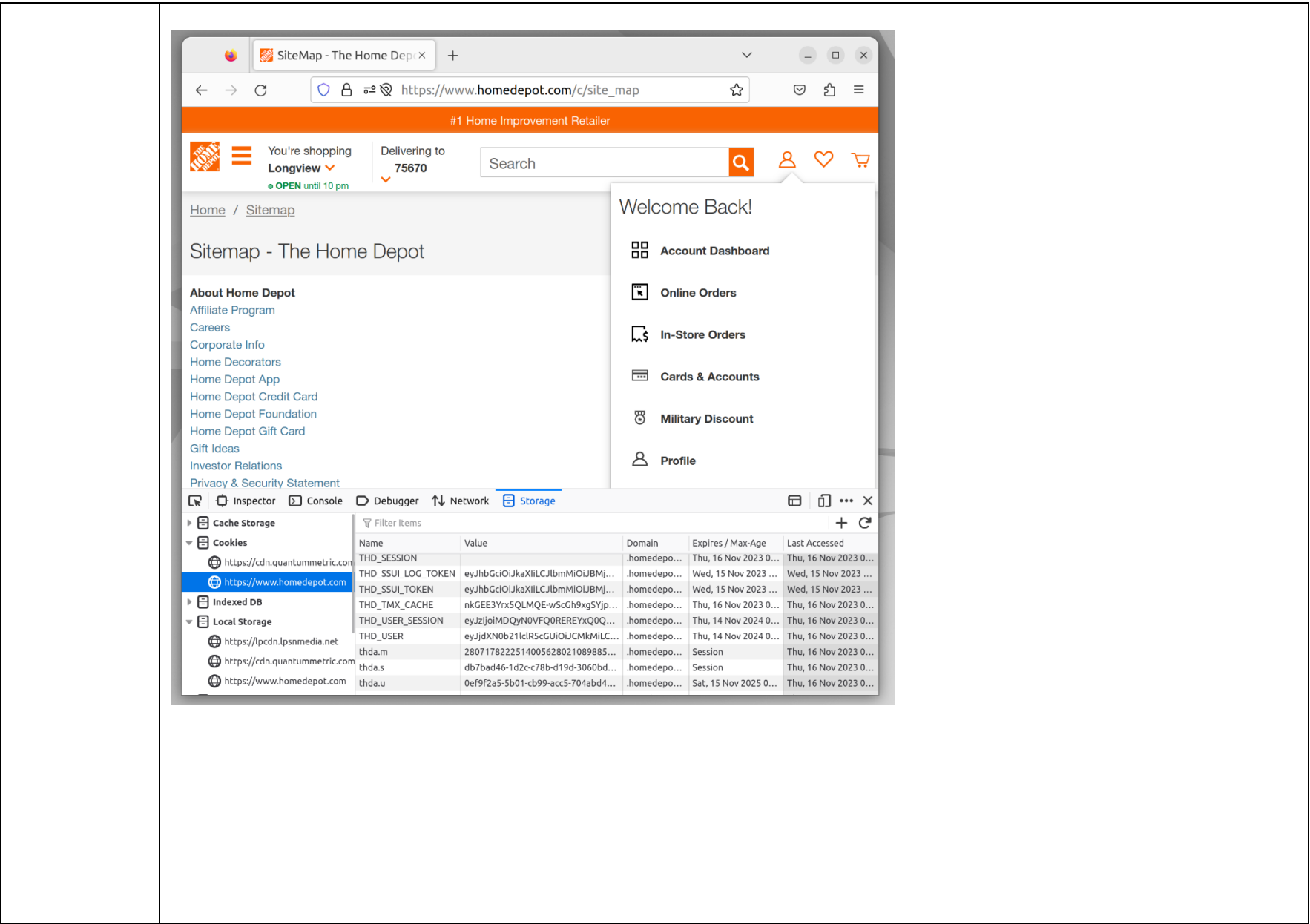


Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Enlarged:

Cookies

https://cdn.quantummetric.com

https://www.homedepot.com

Indexed DB

Local Storage

https://locdn.losnmedia.net

Name	Value	Domain
THD_SESSION		.homedepo...
THD_SSUI_LOG_TOKEN	eyJhbGciOiJkaXIiLCJlbmMiOiJBMj...	.homedepo...
THD_SSUI_TOKEN	eyJhbGciOiJkaXIiLCJlbmMiOiJBMj...	.homedepo...
THD_TMX_CACHE	nkGEE3Yrx5QLMQE-wScGh9xgSYjp...	.homedepo...
THD_USER_SESSION	eyJzIjoieMDQyN0VFQ0REREYxQ0Q...	.homedepo...
THD_USER	eyJjdXN0b21lclR5cGUiOiJCMkMiLC...	.homedepo...

As an additional example showing that the Accused Instrumentalities identify a device using information stored on the device, when a user logs in to a device, the Accused Instrumentalities send an email to the user's email account if the Accused Instrumentalities determine that the user has logged in using a device that the user has not previously used for logging in to homedepot.com. An example of such an email is shown below.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



How does
get more done.

Did you sign in to your account?

We noticed a sign-in to your account from a device we don't recognize. **If this was you, no further action is needed.**

When: **November 14, 4:44 PM**
Where: near **San Francisco, CA**

If this was not you, reset your password and review your account for unauthorized activity.

Reset Password

Why did I get this email?

We'll always notify you when there is a sign-in to your Home Depot account from an unrecognized device to help protect you from unauthorized activity.

Visit your [Security & Password page](#) to review sign-in activity and manage security features.

Please do not reply to this automated message.



How does
get more done.



[Privacy & Security](#)[Return Policy](#)[Customer Service](#)

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2455 Paces Ferry Rd SE, Atlanta, GA 30339

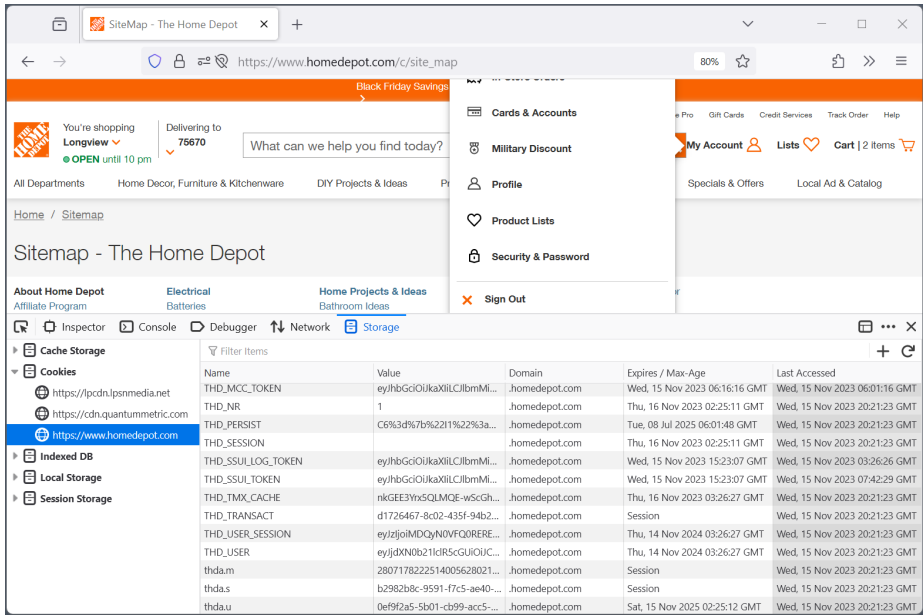
Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	The Accused Instrumentalities may also identify users and devices with other cookies not specifically identified here or by using cookie-less methods. An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.
1[d] perform a second identification of at least one of the client device and the user of the client device using the second cookie of the second type;	The Accused Instrumentalities' one or more processors are configured to perform a second identification of at least one of the client device and the user of the client device using the second cookie of the second type. The "second" cookie can be any of the cookies described above if the "second" cookie is stored in a different location than the "first" cookie. So, for example, if the THD_USER cookie or another cookie stored in the "Cookies" storage area is the "first" cookie, the "second" cookie may be any of the cookies stored in the "Local Storage" area or the "Session Storage" area. Similarly, if the C12 or another cookie stored in the "Local Storage" area is the "first" cookie, the "second" cookie can be any of the cookies stored in the "Cookies" area or the "Session Storage" area. For example, as discussed in limitation 1[c], the Accused Instrumentalities identify a client device or a user of the client device using: 1. cookies stored in the "Cookies" storage area, such as "thda.u," "THD_USER," "THD_USER_SESSION," "THD_PERSIST," or "THD_CUSTOMER;" 2. cookies stored in the "Local Storage" area, such as C12 or the user ID key; and 3. cookies stored in the "Session Storage" area, such as the dsPersistedStorage cookie. The Accused Instrumentalities may also identify users and devices with other cookies not specifically identified here or by using cookie-less methods. An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.
1[e] and perform a determination based at least in part on (1)	The Accused Instrumentalities' one or more processors are configured to perform a determination based at least in part on (1) a presence of a network resource request associated with one of the first cookie and the second cookie, and (2) an absence of a network resource request associated with the other of the first cookie and the second cookie.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

a presence of a network resource request associated with one of the first cookie and the second cookie, and (2) an absence of a network resource request associated with the other of the first cookie and the second cookie;	When a user visits homedepot.com, a presence of a network resource request associated with one of the first cookie and the second cookie can be identified by, for example, examining the cookies described in elements 1[c] and 1[d], any of which can be the “first” or “second” cookie for the reasons explained in element 1[c]. The Accused Instrumentalities perform determinations such as: 1. Determining whether a current user who is not logged in is the same user who was previously logged in. Such a determination may be based on the presence of a network resource request associated with a cookie that identifies a <u>device</u> stored in one of the Cookies, Local Storage, or Session Storage browser areas and the absence of a network resource request associated with a cookie that identifies a <u>logged-in user</u> stored in a different area than the first cookie. After logging in to homedepot.com and then logging out, certain cookies continue to contain information that identifies a user. For example, if the THD_USER cookie (for a Personal Account) or THD_CUSTOMER cookie (for a Pro Account) stored in the Cookies storage area is deleted, the previously-logged in user’s user ID values and email address (which may also be used as a user ID) continue to be stored in Local Storage. Similarly, the value of the thda.u cookie, which contains a device ID, does not change regardless of whether a user is logged in or not. For example, the cookies of a Personal Account user are shown below while logged in.
--	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



The THD_USER_SESSION, THD_USER, and thda.u cookies are visible in this enlarged image:

THD_USER_SESSION	eyJzljoiMDQyNOVFQ0RERE...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
THD_USER	eyJjdXN0b21ldR5cGUiOiJC...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
thda.m	2807178222514005628021...	.homedepot.com	Session
thda.s	b2982b8c-9591-f7c5-ae40-...	.homedepot.com	Session
thda.u	0ef9f2a5-5b01-cb99-acc5-...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	As described above, the decoded values of THD_USER_SESSION contain a user ID 0427EE... <pre>{"s":"0427EECDDDF1CD740U:11eb45ac-ae7-4f9d-b97c-933761f31e7b","u":"0427EECDDDF1CD740U","i":"3wZWXxWhPx6P9iz0s0DBfFX3AIs.*AAJTSQACMDIAAINLABxVN0JNbHlzYy9OZGxhQjFDQnRTUE95S0V5dTA9AAR0eXBIAANDVFMAAIMxAAlwMQ..*","c":"B2C","t":"0427EECDDDEFCD740S","v":1700018787584,"k":"y"}</pre> Similarly, the THD_USER cookie also contains the same user ID 0427EE... and the user's email address. <pre>{"customerType":"B2C","svocCustomerId":"0427EECDDDEFCD740S","logonId":"z_user1@b.org","userId":"0427EECDDDF1CD740U"}</pre>
--	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The dsPersistedStorage cookie in Session Storage of a user logged in to a Personal Account is shown below, displaying the User ID 0427EE....:

The screenshot shows a web browser window with the Home Depot site map. The browser's developer tools are open, displaying the 'Storage' tab. Under 'Session Storage' for the domain 'https://www.homedepot.com', a table of cookies is visible. The 'dsPersistedStorage' cookie is highlighted, showing its key and value. The value is a JSON string representing an object with 'uds' property containing 'storeId' and 'key'.

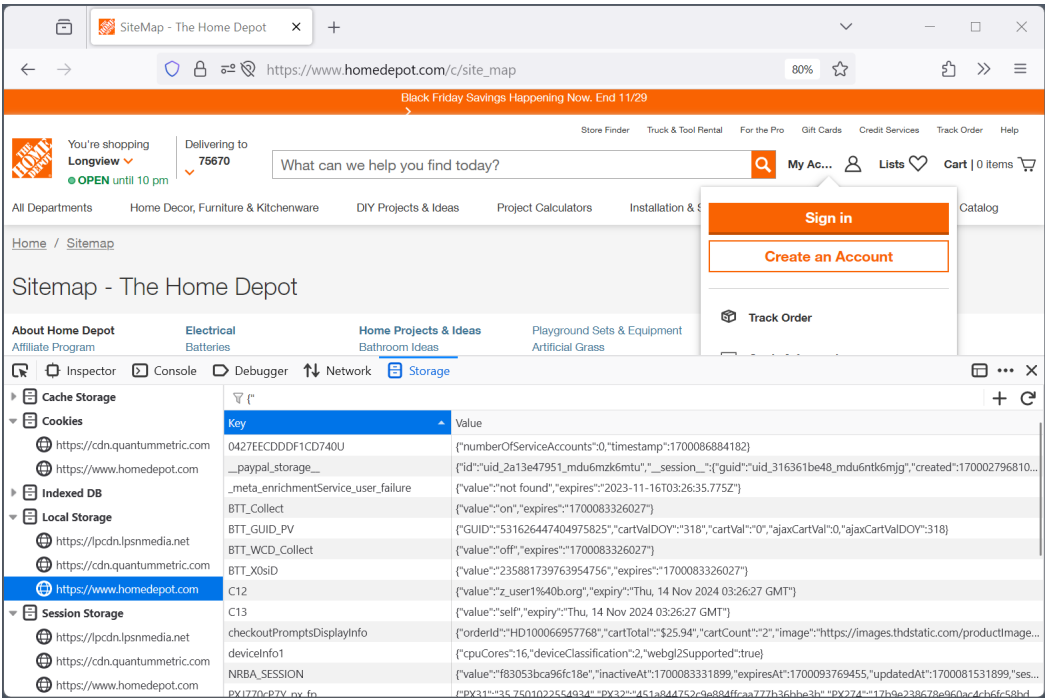
Key	Value
_px_4946459675...	b9e62f71-8365-11ee-b2aa-7ba1d96122ad
dsPersistedStorage	{\"userId\":\"0427EECDDEFCDD7405\", \"unique\":true, \"zipCode\":\"75605\", \"apiNam
GULP_TH2	1
hda	{\"eVar62\":\"STH:n BOPIS BOSS:y APPL:n BODFS:n\", \"t\":\"21:52:39\"}
lpTabId	4473944619
NRBA_SESSION_ID	ad2e1beb30733c02
PIM-SESSION-ID	B4asRIAUCYREVUoT
PXJ770cP7Y_px...	0
PXJ770cP7Y_px_fp	{\"PX31\":\"35.7501022554934\", \"PX32\":\"451a844752c9e884fcaa777b36bbe3b\", \"PX27...
PXJ770cP7Y_px...	1
PXJ770cP7Y_pxti...	_client_tag:v6.3.4,PX123:d35f3e60-8379-11ee-88f7-030b4e188c97,PX378:17000269...
qm_last_page	https://www.homedepot.com/c/site_map
qm_last_period	1700080523837

The 'Parsed Value' pane on the right shows the following structure:

```
dsPersistedStorage: Object
  uds: Object
    storeId: "6545"
    key: "2zSR74pj5Rq6zDtHENHKA..."
    __proto__: Object
```

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

After logging out, the Local Storage area of the client device is shown below:



As seen in this enlarged image, the User ID key persists (0427EE...) and the C12 cookie continues to contain the user's email address:

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	<table><tr><th>Key</th><th>Value</th></tr><tr><td>0427EECDDDF1CD740U</td><td>{"numberOfServiceAccounts":0,"timestamp":1700086884182}</td></tr><tr><td>__paypal_storage__</td><td>{"id":"uid_2a13e47951_mdu6mzk6mtu","__session__":{"guid":"uid_316361</td></tr><tr><td>_meta_enrichmentService_user_failure</td><td>{"value":"not found","expires":"2023-11-16T03:26:35.775Z"}</td></tr><tr><td>BTT_Collect</td><td>{"value":"on","expires":"1700083326027"}</td></tr><tr><td>BTT_GUID_PV</td><td>{"GUID":"531626447404975825","cartValDOY":"318","cartVal":"0","ajaxCar</td></tr><tr><td>BTT_WCD_Collect</td><td>{"value":"off","expires":"1700083326027"}</td></tr><tr><td>BTT_X0siD</td><td>{"value":"235881739763954756","expires":"1700083326027"}</td></tr><tr><td>C12</td><td>{"value":"z_user1%40b.org","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}</td></tr><tr><td>C13</td><td>{"value":"self","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}</td></tr></table>	Key	Value	0427EECDDDF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1700086884182}	__paypal_storage__	{"id":"uid_2a13e47951_mdu6mzk6mtu","__session__":{"guid":"uid_316361	_meta_enrichmentService_user_failure	{"value":"not found","expires":"2023-11-16T03:26:35.775Z"}	BTT_Collect	{"value":"on","expires":"1700083326027"}	BTT_GUID_PV	{"GUID":"531626447404975825","cartValDOY":"318","cartVal":"0","ajaxCar	BTT_WCD_Collect	{"value":"off","expires":"1700083326027"}	BTT_X0siD	{"value":"235881739763954756","expires":"1700083326027"}	C12	{"value":"z_user1%40b.org","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}	C13	{"value":"self","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}
Key	Value																				
0427EECDDDF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1700086884182}																				
__paypal_storage__	{"id":"uid_2a13e47951_mdu6mzk6mtu","__session__":{"guid":"uid_316361																				
_meta_enrichmentService_user_failure	{"value":"not found","expires":"2023-11-16T03:26:35.775Z"}																				
BTT_Collect	{"value":"on","expires":"1700083326027"}																				
BTT_GUID_PV	{"GUID":"531626447404975825","cartValDOY":"318","cartVal":"0","ajaxCar																				
BTT_WCD_Collect	{"value":"off","expires":"1700083326027"}																				
BTT_X0siD	{"value":"235881739763954756","expires":"1700083326027"}																				
C12	{"value":"z_user1%40b.org","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}																				
C13	{"value":"self","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}																				
	SiteMap - The Home Depot https://www.homedepot.com/c/site_map Black Friday Savings Happening Now. End 11/29 You're shopping Longview Delivering to 75670 What can we help you find today? My Ac... Lists Cart 0 items Sign in Create an Account Track Order About Home Depot Electrical Home Projects & Ideas Playground Sets & Equipment Cache Storage Cookies Indexed DB Local Storage Session Storage <table><tr><td>Key</td><td>Value</td></tr><tr><td>0427EECDDDF1CD740U</td><td>{"numberOfServiceAccounts":0,"timestamp":1700086884182}</td></tr><tr><td>checkoutPromptsDisplayInfo</td><td>{"orderId":"HD100066957768","cartTotal":"\$25.94","cartCount":2,"image":"https://images.thdstatic.com/productImages/554a3f25-6c...</td></tr><tr><td>QM</td><td>{"shouldLogResources":false,"s":"e11afb03fac490a6ab893c177727f72","events":{"i":"817","v":"","t":1700079430081},"i":25,"v":"Cookie ...</td></tr><tr><td>THD_CART</td><td>{"cart":{"promotionCode":"","cartAction":"","saveQuoteName":"","userId":"0427EECDDDF1CD740S","orderId":"HD100066957768","mer...</td></tr></table>	Key	Value	0427EECDDDF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1700086884182}	checkoutPromptsDisplayInfo	{"orderId":"HD100066957768","cartTotal":"\$25.94","cartCount":2,"image":"https://images.thdstatic.com/productImages/554a3f25-6c...	QM	{"shouldLogResources":false,"s":"e11afb03fac490a6ab893c177727f72","events":{"i":"817","v":"","t":1700079430081},"i":25,"v":"Cookie ...	THD_CART	{"cart":{"promotionCode":"","cartAction":"","saveQuoteName":"","userId":"0427EECDDDF1CD740S","orderId":"HD100066957768","mer...										
Key	Value																				
0427EECDDDF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1700086884182}																				
checkoutPromptsDisplayInfo	{"orderId":"HD100066957768","cartTotal":"\$25.94","cartCount":2,"image":"https://images.thdstatic.com/productImages/554a3f25-6c...																				
QM	{"shouldLogResources":false,"s":"e11afb03fac490a6ab893c177727f72","events":{"i":"817","v":"","t":1700079430081},"i":25,"v":"Cookie ...																				
THD_CART	{"cart":{"promotionCode":"","cartAction":"","saveQuoteName":"","userId":"0427EECDDDF1CD740S","orderId":"HD100066957768","mer...																				

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The User ID also persists in the checkoutPromptsDisplayInfo, QM, and THD_CART cookies shown in this enlarged image, all of which contain the User ID 0427EE....

Key	Value
0427EECDDDF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1700086884182}
checkoutPromptsDisplayInfo	{"orderId":"HD100066957768","cartTotal":"\$25.94","cartCount":"2","image":"https://images.thdstatic.com/media/image000/1700086884182.jpg"}
QM	{"shouldLogResources":false,"s":"e11afbd03fac490a6ab893c177727f72","events":{"i":817,"v":"","t":1700086884182}}
THD_CART	{"cart":{"promotionCode":"","cartAction":"","saveQuoteName":"","userId":"0427EECDDDF1CD740S","cartId":"HD100066957768","cartTotal":"\$25.94","cartCount":"2","image":"https://images.thdstatic.com/media/image000/1700086884182.jpg"}}

In contrast, other cookies change depending on whether a user is signed in or not. For example, if a user logs out, the Accused Instrumentalities delete any THD_USER, THD_USER_SESSION, and THD_CUSTOMER cookies.

For example, below are the cookies of a Personal Account user while logged in (same image as above).

THD_USER_SESSION	eyJzljoiMDQyN0VFQ0RERE...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
THD_USER	eyJjdXN0b21lclR5cGUiOiJC...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
thda.m	2807178222514005628021...	.homedepot.com	Session
thda.s	b2982b8c-9591-f7c5-ae40-...	.homedepot.com	Session
thda.u	0ef9f2a5-5b01-cb99-acc5-...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

After logging out, the cookies appear as shown:

The screenshot shows the Sitemap - The Home Depot website. The header includes the Home Depot logo, navigation links (Store Finder, Truck & Tool Rental, For the Pro, Gift Cards, Credit Services, Track Order, Help), and a search bar. A banner for "Black Friday Savings" is visible. The main content area features a "Sign in" button and a "Create an Account" button. A cookie consent overlay is present at the bottom, asking for permission to use cookies. The overlay includes a table of cookies and session storage items.

	Name	Value	Domain	Expires / Max-Age	Last Accessed
Cookies	THD_LOCALIZER	%257B%2522WORKFLOW%2522%25...	.homedepot.com	Thu, 14 Nov 2024 20:21:23 GMT	Wed, 15 Nov 2023 20:40:18 GMT
	THD_MCC_ID	2e6bfd13-bfcd-4b90-bd66-1ce02da2...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
	THD_MCC_TOKEN	eyJhbGciOiJIaXILClbmMiOiJBMyU2R...	.homedepot.com	Wed, 15 Nov 2023 06:16:16 GMT	Wed, 15 Nov 2023 06:01:16 GMT
	THD_NR	1	.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT	Wed, 15 Nov 2023 20:40:18 GMT
Local Storage	THD_PERSIST	""	.homedepot.com	Thu, 14 Nov 2024 20:40:18 GMT	Wed, 15 Nov 2023 20:40:18 GMT
	THD_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT	Wed, 15 Nov 2023 20:40:18 GMT
	THD_SSU_LOG_TOKEN	eyJhbGciOiJIaXILClbmMiOiJBMyU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT	Wed, 15 Nov 2023 03:26:26 GMT
	THD_SSU_TOKEN	eyJhbGciOiJIaXILClbmMiOiJBMyU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT	Wed, 15 Nov 2023 07:42:29 GMT
	THD_TMX_CACHE	nkGEE3Yn5QLMQE-wScGh9xgSVjp1...	.homedepot.com	Thu, 16 Nov 2023 03:26:27 GMT	Wed, 15 Nov 2023 20:40:18 GMT
	thda.m	28071782251400562802108988508...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
Session Storage	thda.s	b2982b8c-9591-f7c5-ae40-f1dad810...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
	thda.u	0ef9f2a5-5b01-cb99-acc5-704bad40b...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT	Wed, 15 Nov 2023 20:40:18 GMT

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

As seen in this enlarged view, THD_USER and THD_USER_SESSION have been deleted and THD_PERSIST is now blank:

THD_PERSIST	""	.homedepot.com	Thu, 14 Nov 2024 20:40:18 GMT
THD_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT
THD_SSUI_LOG_TOKEN	eyJhbGciOiJkaXIiLCJlbmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT
THD_SSUI_TOKEN	eyJhbGciOiJkaXIiLCJlbmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT
THD_TMX_CACHE	nkGEE3Yrx5QLMQE-wScGh9xgSYjp1...	.homedepot.com	Thu, 16 Nov 2023 03:26:27 GMT
thda.m	280717822251400562802108988508...	.homedepot.com	Session
thda.s	b2982b8c-9591-f7c5-ae40-f1dad810...	.homedepot.com	Session
thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

In Session Storage, the dsPersistedStorage cookie has also reverted back to the device ID (0ef9f...)

The screenshot shows the Home Depot website's Sitemap page. The Chrome DevTools Storage Inspector is open, displaying the Cookies list. The `dsPersistedStorage` cookie is selected, and its value is shown in the right pane. The value is a JSON string: `'\\"userId\\"":"0ef9f2a5-5b01-cb99-acc5-704abd40b8ac\\"","unique\\"":true,\"zipCode\"'`.

Key	Value
<code>_px_4946459675_c...</code>	<code>b9e62f71-8365-11ee-b2aa-7ba1d96122ad</code>
<code>dsPersistedStorage</code>	<code>'\\"userId\\"":"0ef9f2a5-5b01-cb99-acc5-704abd40b8ac\\"","unique\\"":true,\"zipCode\"'</code>
<code>GULP_TH2</code>	<code>1</code>
<code>hda</code>	<code>{\"eVar62\":\"STH:n BOPIS/BOSS:y APPL:n BODFS:n\", \"t\":\"21:52:39\"}</code>
<code>lpTabId</code>	<code>4473944619</code>
<code>NRBA_SESSION_ID</code>	<code>ad2e1beb30733c02</code>
<code>PIM-SESSION-ID</code>	<code>B4asRIAUCYREVUoT</code>
<code>PXJ770cP7Y_px_c...</code>	<code>0</code>
<code>PXJ770cP7Y_px_fp</code>	<code>{\"PX31\":\"35.7501022554934\", \"PX32\":\"451a844752c9e884ffcaa777b36bbe3b\", \"PX...</code>
<code>PXJ770cP7Y_px_nfsp</code>	<code>1</code>
<code>PXJ770cP7Y_pxtim...</code>	<code>_client_tag:v6.3.4,PX123:d35f3e60-8379-11ee-88f7-030b4e188c97,PX378:170002...</code>
<code>qm_last_page</code>	<code>https://www.homedepot.com/c/site_map</code>
<code>qm_last_period</code>	<code>1700081396313</code>

Enlarged:

`dsPersistedStorage` `'\\"userId\\"":"0ef9f2a5-5b01-cb99-acc5-704abd40b8ac\\"","unique\\"":true,\"zipCode\"'`

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

For a Pro Account, the Accused Instrumentalities will function similarly. The Accused Instrumentalities will cause the client device to store THD_CUSTOMER (with decoded user ID 0527F...) and THD_PERSIST (with customer email) cookies in Cookies storage (full walkthrough described in element 1[a]).

THD_

Name	Value	Domain
THD_CACHE_NAV_SESSION		.homedepot.com
THD_CART_HASH	dd29b1e5a	.homedepot.com
THD_CUSTOMER	eyJzljoiMDUyN0YwQzZGRUFDN...	.homedepot.com
THD_LOCALIZER	%257B%2522WORKFLOW%252...	.homedepot.com

```
{
  "s": "0527F0C6FEAC631D0U:b203c1c6-13ce-42b6-b744-3cff7a1a01f8",
  "u": "0527F0C6FEAC631D0U",
  "i": "4mCgVUEmaxyRr78e5YWz6zwHzyY.*A",
  "AJTSQACMDIAAINLABxjTkt5S2xxai9nTIFXY2N2eHdNYjlyakNsUDg9AAR0eXBIAANDVFMAAI",
  "MxAAIwMQ..*",
  "c": "B2B",
  "g": "Contractors",
  "t": "0527F0C6FEA4E31D0S",
  "r": "ADMIN",
  "v": 1700084996180,
  "k": "y"
}
```

Request Cookies

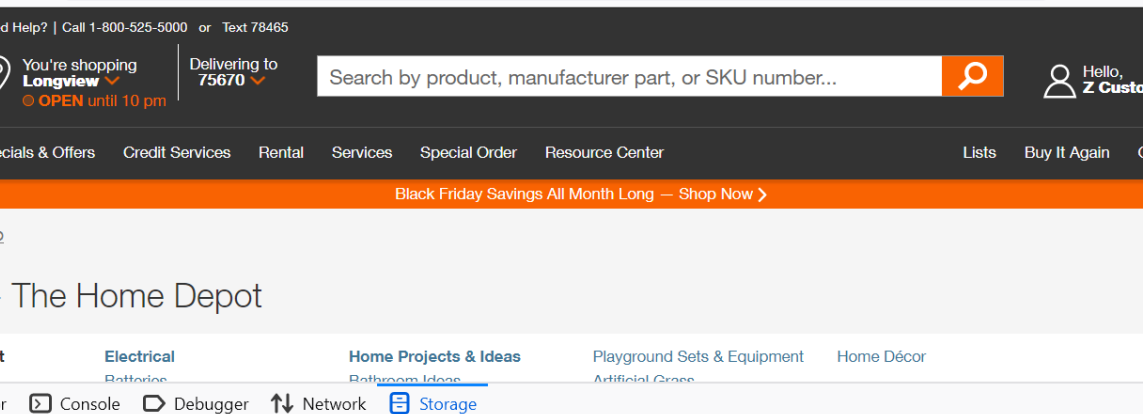
```
THD_PERSIST: 'C6={"i1":"0"};;C6_EXP=1702679117;;
C12=z_customer1@b.org;;
C12_EXP=1751927117;;C13=Z
CUSTOMER;;C13_EXP=1751927117'
```

The Accused Instrumentalities will cause the client device to store b2b-hf-dynamic-phone-number, customerConfiguration, QM, thd-membershipinformation, C12, C13, and THD_CART cookies in Local Storage (see 1[a] for full walkthrough), all containing the 0527F0C6... user ID, user email (C12), or user name (C13).

0527F0C6

Key	Value
b2b-hf-dynamic-phone-num...	{"phoneNumber":"1-800-525-5000","shortCode":"78465","expiration":"2023-11-16T21:50:09.535Z","svocId":"0527F0C6FEA4E31D0S"}
customerConfiguration	{"callCenterType":"ProOcc","chatEnabled":false,"eliteCallCenterNumber":"1-866-333-3551","eliteCallCenterSMSCode":"78465","expira..."}
QM	{"shouldLogResources":false,"s":"ca6fd6c3a3655f8b564f03af1e247b9c","events":{"i":"817","v":"","t":"1700084763838"},"i":"-25","v":"Cookie..."}
thd-membershipInformation	{"svocId":"0527F0C6FEA4E31D0S","programTiers":[],"expireTime":1700128209617}

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



The screenshot shows the Home Depot website at the URL `https://www.homedepot.com/c/site_map`. The browser's address bar shows the URL and a 80% zoom level. The website header includes the Home Depot logo, navigation links like "Explore Features", "Need Help?", and "Call 1-800-525-5000", a search bar, and a shopping cart icon. The main content area displays "Sitemap - The Home Depot" with various category links. The Chrome DevTools Storage Inspector is open, showing a list of cookies and local storage items. The "Cookies" section is expanded, showing a table with columns "Key" and "Value". The "Local Storage" section is also expanded, showing a table with columns "Key" and "Value".

Key	Value
<code>https://cdn.quantummetric.com</code>	<code>{ "numberOfServiceAccounts": 0, "timestamp": 1700086884182 }</code>
<code>https://www.homedepot.com</code>	<code>{ "id": "uid_2a13e47951_mdu6mzk6mtu", "session": ":", "guid": "uid_316361be48_mdu6ntk6mjg", "created": 1700027968100, "experimen..." }</code>
<code>Indexed DB</code>	
<code>Local Storage</code>	
<code>https://lpcdn.lpsnmedia.net</code>	<code>{ "value": "on", "expires": "1700086620224" }</code>
<code>https://cdn.quantummetric.com</code>	<code>{ "GUID": "531626447404975825", "cartValDOY": "318", "cartVal": "0", "ajaxCartVal": "0", "ajaxCartValDOY": "318" }</code>
<code>https://www.homedepot.com</code>	<code>{ "value": "off", "expires": "1700087597031" }</code>
<code>Session Storage</code>	
<code>https://lpcdn.lpsnmedia.net</code>	<code>{ "value": "541756187758760199", "expires": "1700087597031" }</code>
<code>https://cdn.quantummetric.com</code>	<code>{ "value": "z_customer1%40b.org", "expiry": "Thu, 14 Nov 2024 21:49:56 GMT" }</code>
<code>https://www.homedepot.com</code>	<code>{ "value": "Z%20CUSTOMER", "expiry": "Thu, 14 Nov 2024 21:49:56 GMT" }</code>
<code>checkoutPromptsDisplayInfo</code>	<code>{ "orderId": "HD100066957768", "cartTotal": "\$25.94", "cartCount": "2", "image": "https://images.thdstatic.com/productImages/554a3f25-6..." }</code>
<code>customerConfiguration</code>	<code>{ "callCenterType": "ProOcc", "chatEnabled": false, "eliteCallCenterNumber": "1-866-333-3551", "eliteCallCenterSMSCode": "78465", "expira..." }</code>
<code>deviceInfo1</code>	<code>{ "cpuCores": 16, "deviceClassification": 2, "webgl2Supported": true }</code>

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

After logging out, the THD_CUSTOMER cookie is deleted and the THD_PERSIST cookie is blanked (both in Cookie storage).

The screenshot shows the Home Depot website's SiteMap page. The browser's developer console is open, displaying the 'Storage' tab. Under the 'Cookies' section, a table lists cookies for the domain https://www.homedepot.com. The table includes columns for Name, Value, Domain, Expires / Max-Age, and Last Accessed. The cookies listed are THD_CACHE_NAV_PERSIST, THD_CACHE_NAV_SESSION, THD_CART_HASH, THD_LOCALIZER, THD_MCC_ID, THD_MCC_TOKEN, THD_NR, THD_PERSIST, THD_SESSION, THD_SSUI_LOG_TOKEN, THD_SSUI_TOKEN, THD_TMX_CACHE, thda.m, thda.s, and thda.u. The THD_PERSIST cookie is shown with a blank value.

Name	Value	Domain	Expires / Max-Age	Last Accessed
THD_CACHE_NAV_PERSIST		.homedepot.com	Mon, 07 Jul 2025 02:25:11 G...	Wed, 15 Nov 2023 22:53:52 ...
THD_CACHE_NAV_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 ...	Wed, 15 Nov 2023 22:53:52 ...
THD_CART_HASH	dd29b1e5a	.homedepot.com	Fri, 15 Dec 2023 05:39:15 G...	Wed, 15 Nov 2023 22:26:00 ...
THD_LOCALIZER	%257B%2522WORKFLOW%2522%253A%25...	.homedepot.com	Thu, 14 Nov 2024 22:53:54 ...	Wed, 15 Nov 2023 22:53:54 ...
THD_MCC_ID	2e6bfd13-bfcd-4b90-bd66-1ce02da2a335	.homedepot.com	Session	Wed, 15 Nov 2023 22:53:52 ...
THD_MCC_TOKEN	eyJhbGciOiJIaXlJbmMiOiJBMjU2R0NNIn...	.homedepot.com	Wed, 15 Nov 2023 06:16:16 ...	Wed, 15 Nov 2023 06:01:16 ...
THD_NR	1	.homedepot.com	Thu, 16 Nov 2023 02:25:11 ...	Wed, 15 Nov 2023 22:53:52 ...
THD_PERSIST	""	.homedepot.com	Thu, 14 Nov 2024 22:53:52 ...	Wed, 15 Nov 2023 22:53:53 ...
THD_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 ...	Wed, 15 Nov 2023 22:53:52 ...
THD_SSUI_LOG_TOKEN	eyJhbGciOiJIaXlJbmMiOiJBMjU2R0NNIn...	.homedepot.com	Thu, 16 Nov 2023 09:46:56 ...	Wed, 15 Nov 2023 21:49:13 ...
THD_SSUI_TOKEN	eyJhbGciOiJIaXlJbmMiOiJBMjU2R0NNIn...	.homedepot.com	Thu, 16 Nov 2023 09:46:56 ...	Wed, 15 Nov 2023 21:49:13 ...
THD_TMX_CACHE	zwC3GpjRhJV8nKJhTnyrV74rWwUennaPAfe...	.homedepot.com	Thu, 16 Nov 2023 21:49:55 ...	Wed, 15 Nov 2023 22:53:52 ...
thda.m	280717822251400562802108988508122059...	.homedepot.com	Session	Wed, 15 Nov 2023 22:53:52 ...
thda.s	b2982b8c-9591-f7c5-ae40-f1dad8103f11	.homedepot.com	Session	Wed, 15 Nov 2023 22:53:52 ...
thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b8ac	.homedepot.com	Sat, 15 Nov 2025 02:25:12 G...	Wed, 15 Nov 2023 22:53:52 ...

However, the cookies in Local Storage persist (b2b-hf-dynamic-phone-number, customerConfiguration, QM, thd-membershipinformation, C12, C13, and THD_CART cookies in local storage (see 1[a] for full walkthrough), all containing the 0527F0C6... user ID, user email (C12), or user name (C13).

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

SiteMap - The Home Depot

https://www.homedepot.com/c/site_map

80%

Black Friday Savings Happening Now. End 11/29

THE HOME DEPOT

You're shopping

Longview

OPEN until 10 pm

Delivering to

75670

What can we help you find today?

My Ac...

Lists

Cart | 0 items

Store Finder

Truck & Tool Rental

For the Pro

Gift Cards

Credit Services

Track Order

Help

All Departments

Home Decor, Furniture & Kitchenware

DIY Projects & Ideas

Project Calculators

Installation & S

Catalog

Home / Sitemap

Sitemap - The Home Depot

Inspector

Console

Debugger

Network

Storage

Cache Storage

Cookies

Indexed DB

Local Storage

Session Storage

Key

Value

0427EECDDDF1CD740U

{ "numberOfServiceAccounts":0,"timestamp":1700086884182}

__paypal_storage__

{ "id":"uid_2a13e47951_mdu6mzk6mtu","__session__":{"guid":"uid_386976086f_mjm6mti6nte","created":1700089971146},"exp...

_meta_enrichmentService_user_failure

{ "value":"not found","expires":"2023-11-16T03:26:35.775Z"}

b2b-hf-dynamic-phone-number

{ "phoneNumber":"1-800-525-5000","shortCode":"78465","expiration":"2023-11-16T21:50:09.535Z","svocId":"0527F0C6FEA4E...

BTT_Collect

{ "value":"on","expires":"1700090635868"}

BTT_GUID_PV

{ "GUID":"531626447404975825","cartValDOY":"318","cartVal":"0","ajaxCartVal":"0","ajaxCartValDOY":318}

BTT_WCD_Collect

{ "value":"off","expires":"1700091797617"}

BTT_X0siD

{ "value":"541756187758760199","expires":"1700091797617"}

C12

{ "value":"z_customer1%40b.org","expiry":"Thu, 14 Nov 2024 23:04:08 GMT"}

C13

{ "value":"Z%20CUSTOMER","expiry":"Thu, 14 Nov 2024 23:04:08 GMT"}

customerConfiguration

{ "callCenterType":"ProOcc","chatEnabled":false,"eliteCallCenterNumber":"1-866-333-3551","eliteCallCenterSMSCode":"78465"...

deviceInfo1

{ "cpuCores":16,"deviceClassification":2,"webgl2Supported":true}

NRBA_SESSION

{ "value":"103b11e66fe499b3","inactiveAt":1700091878988,"expiresAt":1700099046500,"updatedAt":1700090078988,"session...

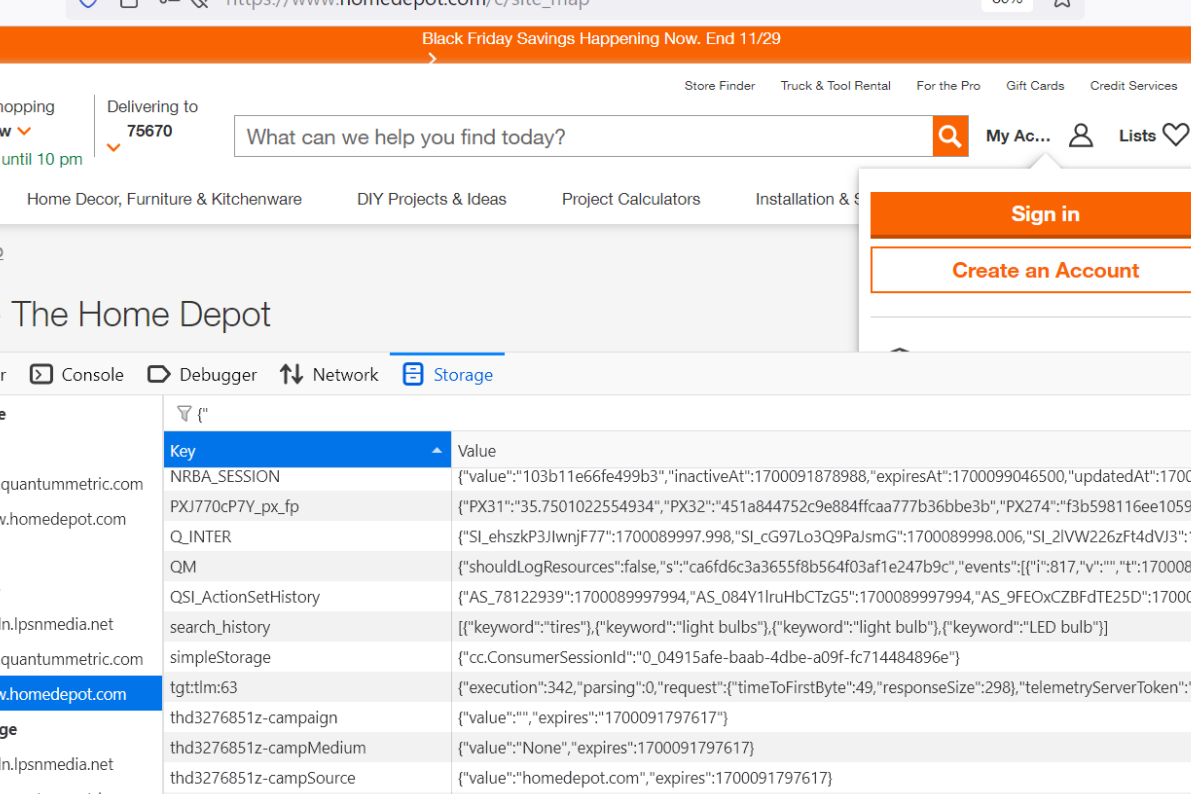
PXJ770cP7Y_px_fp

{ "PX31":"35.7501022554934","PX32":"451a844752c9e884ffcaa777b36bbe3b","PX274":"f3b598116ee105998d5d1abc84d449cd...

O_INTER

{ "SI_ehszkP3JlwniF77":1700089997.998,"SI_cg97Lo3O9PalSmG":1700089998.006,"SI_2lVW226zFt4dVJ3":1700026824.821,"SI_c...

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



The screenshot shows the Home Depot website at the URL `https://www.homedepot.com/c/site_map`. The browser's address bar indicates a 80% zoom level. A banner at the top reads "Black Friday Savings Happening Now. End 11/29". The website header includes navigation links like "SiteMap", "You're shopping Longview", "Delivering to 75670", and a search bar. A "Sign in" and "Create an Account" overlay is visible on the right. The Chrome DevTools Storage Inspector is open, displaying the following session storage data:

Key	Value
NRBA_SESSION	{"value":"103b11e66fe499b3","inactiveAt":1700091878988,"expiresAt":1700099046500,"updatedAt":1700090078988,"session..."}
PXJ770CP7Y_px_fp	{"PX31":"35.7501022554934","PX32":"451a844752c9e884ffcaa777b36bbe3b","PX274":"f3b598116ee105998d5d1abc84d449cd..."}
Q_INTER	{"SI_elszkp3JlwnjF77":1700089997.998,"SI_CG97Lo3Q9PaJsmG":1700089998.006,"SI_2lVW226zFt4dVJ3":1700026824.821,"SI_C..."}
QM	{"shouldLogResources":false,"s":"ca6fd6c3a3655f8b564f03af1e247b9c","events":{"[":817,"v":"","":1700084763838},"[":-25,"v":..."}
QSL_ActionSetHistory	{"AS_78122939":1700089997994,"AS_084Y1IruHbCTG5":1700089997994,"AS_9FEOXCZBFdTE25D":1700089997994,"AS_8909..."}
search_history	[{"keyword":"tires"}, {"keyword":"light bulbs"}, {"keyword":"light bulb"}, {"keyword":"LED bulb"}]
simpleStorage	{"cc.ConsumerSessionId":"0_04915afe-baab-4dbe-a09f-fc714484896e"}
tgctlm:63	{"execution":342,"parsing":0,"request":{"timeToFirstByte":49,"responseSize":298},"telemetryServerToken":"SDFlmdfA6Hh+MgT..."}
thd3276851z-campaign	{"value":"","expires":"1700091797617"}
thd3276851z-campMedium	{"value":"","expires":"1700091797617"}
thd3276851z-campSource	{"value":"homedepot.com","expires":1700091797617}
thd3276851z-datacenter	{"value":"Default","expires":"1700091797617"}
thd-membershipInformation	{"svocID":"0527F0C6FEA4E31D0S","programTiers":[],"expireTime":1700128209617}
THD_CART	{"cart":{"promotionCode":"","cartAction":"","saveQuoteName":"","userId":"0527F0C6FEA4E31D0S","expressCheckout":false,"pa..."}
WORKFLOW	{"createTime":"2023-11-15T23:04:09.225Z","data":{"LOCALIZED_BY_STORE"},"expireTime":3153600000}

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

0527F0C6

Key	Value
b2b-hf-dynamic-phone-num...	{ "phoneNumber": "1-800-525-5000" , "shortCode": "78465" , "expiration": "2023-11-16T21:50:09.535Z" , "svocId": "0527F0C6FEA4E31D05" }
customerConfiguration	{ "callCenterType": "ProOcc" , "chatEnabled": false , "eliteCallCenterNumber": "1-866-333-3551" , "eliteCallCenterSMSCode": "78465" , "expira... }
QM	{ "shouldLogResources": false , "s": "ca6fd6c3a3655f8b564f03af1e247b9c" , "events": [{ "i": 817 , "v": " , "t": 1700084763838 } , { "i": -25 , "v": "Cookie.. " }] }
thd-membershipInformation	{ "svocID": "0527F0C6FEA4E31D05" , "programTiers": [] , "expireTime": 1700128209617 }

Thus, the Accused Instrumentalities determine that the current user who is not logged in may be the same user who was previously logged in based at least in part on, for example:

- The presence of any of the Local Storage cookies (User ID, C12, C13, checkoutPromptsDisplayInfo, QM, THD_CART, b2b-hf-dynamic-phone-number, customerConfiguration, or thd-membershipinformation) that continue to identify a user after logging out and the absence of a network resource request associated with of any of the Cookie Storage cookies that store a user ID (THD_USER, THD_PERSIST, or THD_CUSTOMER);
- The presence of a network resource request associated with a Session Storage cookie (dsPersistedStorage) that contains a device ID (reflected from thda.u) and the absence of a network resource request associated with of any of the Cookie Storage cookies that store a user ID (THD_USER, THD_PERSIST, or THD_CUSTOMER);
- The presence of a network resource request associated with a Session Storage cookie (dsPersistedStorage), or a Cookie Storage cookie (thda.u), that contains a device ID (reflected from thda.u) and the absence of any of the Local Storage cookies (User ID, C12, C13, checkoutPromptsDisplayInfo, QM, THD_CART, b2b-hf-dynamic-phone-number, customerConfiguration, or thd-membershipinformation) if those Local Storage cookies have been overridden by another user's login.

Alternatively, a cookie stored in the Local Storage or Session Storage areas may be considered the “second” cookie and a cookie stored in the Cookie storage area may be considered the “first” cookie.

Determinations regarding user tracking may also be made by the Accused Instrumentalities based at least in part on the presence and absence described above. For example, a user may have previously logged in to a device that the Accused Instrumentalities associated with that user, for example by using a cookie that identifies a user (e.g., the THD_USER cookie). The Accused Instrumentalities may have also identified that device, before, while, and/or after a user logged in to the device, by using a cookie that identifies the device (e.g., the thda.u cookie). After the user logs out, and visits homedepot.com as a logged-out user on the same device, the Accused Instrumentalities may identify that same device by, for example, identifying a cookie that identifies the device, or by identifying a cookie stored in Local Storage that continues to contain the previously-logged in user's user ID value (e.g. the C12 cookie). The

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	Accused Instrumentalities may also note that the device is currently sending network requests that do not include any cookies that identify the previously-logged in user (e.g., the device is not sending a request that includes the THD_USER cookie when requesting homedepot.com). The Accused Instrumentalities may then determine that the device may be in use by the user identified by the previously-sent THD_USER cookie. If more than one THD_USER cookie value has been sent by the device (e.g., in the examples in 1[c] and 1[d] above where the user with a personal account sends a THD_USER cookie with a user ID value and the “Z Customer” user with a Pro Account sends a different THD_CUSTOMER cookie with a different user ID value), then the Accused Instrumentalities may make a determination regarding whether the current user is one of the previously-logged in users. If only one user ID value has ever been sent by the device, then the Accused Instrumentalities may be more confident that the single previously-logged in user is continuing to use the same device, even though the user is not logged in. 2. Determining whether to request certain cookies. The Accused Instrumentalities make different determinations in situations when the user is logged in from when the user is not logged in. The Accused Instrumentalities may make such determinations, for example, whether to attribute browsing behavior to a user for tracking accuracy. For example, when the user is logged in, the THD_USER and THD_USER_SESSION cookies are stored in the Cookies storage area of the client device, and the browser sends a network request that included those cookies and that included a THD_PERSIST cookie having a value that included the user’s email address (login) that is also stored in the C12 cookie.
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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The screenshot shows a web browser window with the URL https://www.homedepot.com/c/site_map. The page title is "Sitemap - The Home Depot". The browser's developer tools are open, showing the Network tab. A list of network requests is displayed, with the first request selected:

M...	Domain	File	Initiator	Type	Transferr...	Size
PO...	collector-pxj770cp7y.px...	beacon	beacon			
GET	www.homedepot.com	site_map	document	html	105.25 kB	480...
PO...	collector-pxj770cp7y.px...	beacon	beacon			
PO...	ingest.quantummetric.com	homedepr...	quantum-h...			
PO...	ingest.quantummetric.com	homedepr...	quantum-h...			
PO...	6aeafb8b7897496a86...	prop.json	script.js:1 (...)	json	625 B	0 B
PO...	6aeafb8b7897496a86...	prop.json	script.js:1 (...)	json	625 B	0 B
GET	assets.thdstatic.com	headerfoo	stylesheet	css	cached	77.1...
GET	www.homedepot.com	20345226	script	js	10.08 kB	26.6...
GET	assets.thdstatic.com	global-she	script	js	cached	0 B

The right-hand pane of the developer tools shows the details for the selected request, including headers, cookies, response, and timings.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

SiteMap - The Home Depot

https://www.homedepot.com/c/site_map

80%

Black Friday Savings Happening Now. End 11/29

You're shopping

Longview

OPEN until 10 pm

Delivering to

75670

What can we help you find today?

My Account

Lists

Cart | 0 items

Store Finder

Truck & Tool Rental

For the Pro

Gift Cards

Credit Services

Track Order

Help

All Departments

Home Decor, Furniture & Kitchenware

DIY Projects & Ideas

Project Calculators

Installation & Services

Specials & Offers

Local Ad & Catalog

Home / Sitemap

Sitemap - The Home Depot

About Home Depot

Electrical

Home Projects & Ideas

Playground Sets & Equipment

Home Décor

Affiliate Program

Batteries

Bathroom Ideas

Artificial Grass

Inspector

Console

Debugger

Network

Storage

Filter URLs

HTML

CSS

JS

XHR

Fonts

Images

Media

WS

Other

Disable Cache

No Throttling

M...	Domain	File	Initiator	Type	Transferr...	Size
PO...	collector-pxj770cp7y.px-...	beacon	beacon			
GET	www.homedepot.com	site_map	document	html	105.25 kB	480...
PO...	collector-pxj770cp7y.px-...	beacon	beacon			
PO...	ingest.quantummetric.com	homedepc	quantum-h...			
PO...	ingest.quantummetric.com	homedepc	quantum-h...			
PO...	6aeca8b7897496a86...	prop.json	script.js:1 (...)	json	625 B	0 B
PO...	6aeca8b7897496a86...	prop.json	script.js:1 (...)	json	625 B	0 B
GET	assets.thdstatic.com	headerfoo	stylesheet	css	cached	77.1...
GET	www.homedepot.com	20345226	script	js	10.08 kB	26.6...
GET	assets.thdstatic.com	global-she	script	js	cached	0 B

496 requests

5.48 MB / 929.85 kB transferred

Finish: 17.13 min

DOMCor

ers

Response Cookies

Request Cookies

AMCV_F6421253512D2C100A490D45@AdobeOrg: "1585540135[MCMID]28071782225140056280210898850812205946[MCAAMLH-1700624753]9[MCAAMB-1700624753]6G1ynYcLPuiQxYZrsz_pkqfLG9yMXBpb2zX5dvJdYQJzPXlmdj0y[MCOPTOUT-1700027153s[NONE][MCCIDH]-1997361141[VVersion]4.4.0"

s_pers: " s_nr365=1700019953415-Repeat[1731555953415; s_dslv=1700019953416[1794627953416;"

s_sess: " ecrIdUDSCalled=true; s_pv_pName=sitemap%20-%20the%20home%20depot; s_pv_pType=content; s_pv_cmpgn=; s_pv_pVer=content%3Aversion%3Agen2; stsh=; s_cc=true;"

THD_CACHE_NAV_PERSIST: ""

THD_PERSIST: "C12=z_user1@b.org;C12_EXP=1731554787;C13=self;C13_EXP=1731554787"

In contrast, when the user was not logged in, the THD_USER and THD_USER_SESSION cookies were not stored at the client device, and the browser sent a network request that did not include a THD_USER or THD_USER_SESSION cookie, and the browser sent a network request with a THD_PERSIST cookie having an empty value.

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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The screenshot shows a web browser window with the URL https://www.homedepot.com/c/site_map. The page header includes the Home Depot logo, location information (Longview, OPEN until 10 pm), and a search bar. Navigation links include Site Map, About Us, My Account, Lists, Cart, and various service links like Store Finder and Track Order.

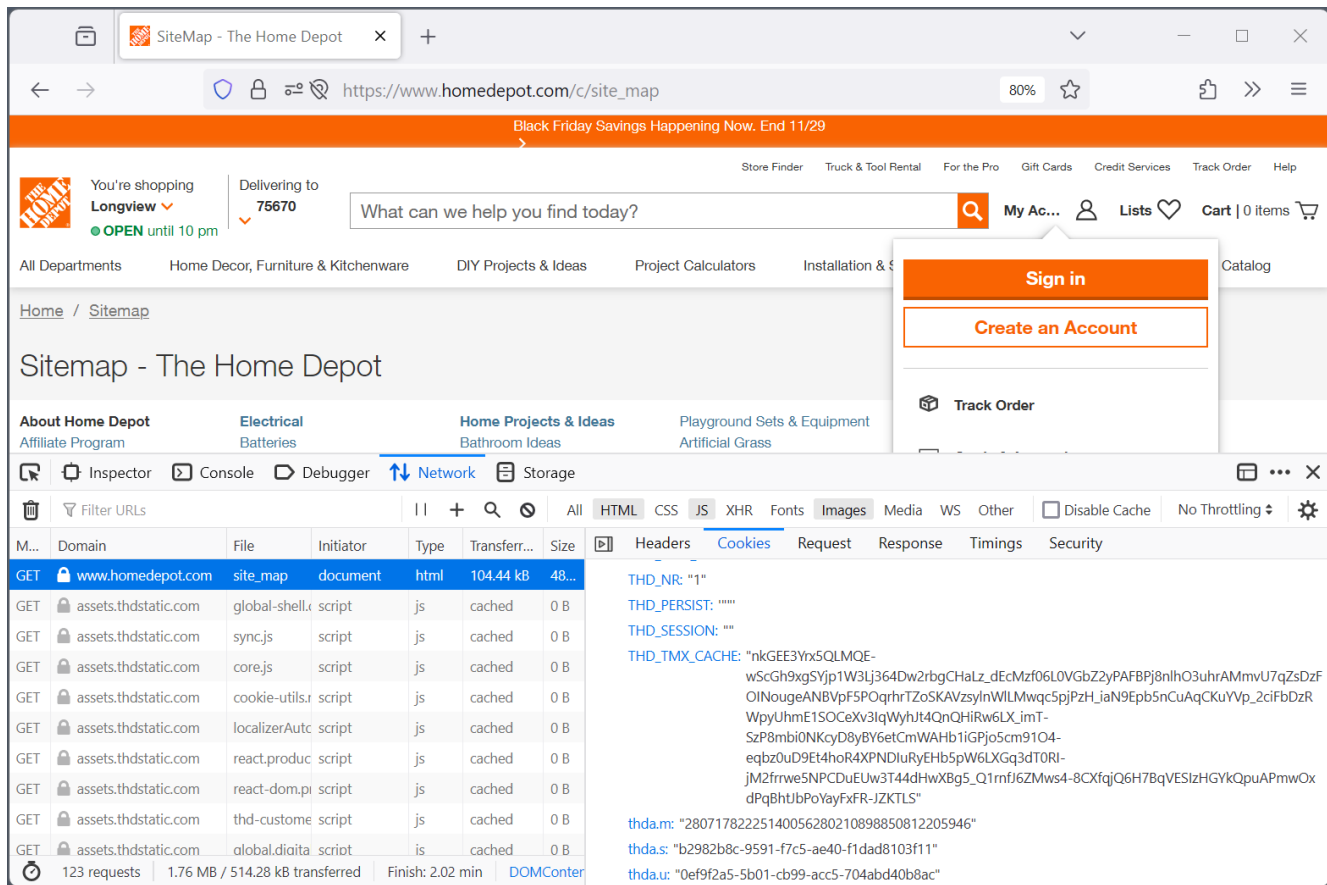
The main content area displays the title "Sitemap - The Home Depot" and several category links: About Home Depot, Electrical Batteries, Home Projects & Ideas Bathroom Ideas, Playground Sets & Equipment Artificial Grass, and more.

A developer tools console is open at the bottom, showing the following data:

- Cookies:**

Name	Value	Domain	Expires / Max-Age	Last Accessed
THD_LOCALIZER	%257B%2522WORKFLOW%2522%25...	.homedepot.com	Thu, 14 Nov 2024 20:21:23 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_MCC_ID	2e6bfd13-bfcd-4b90-bd66-1ce02da2...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
THD_MCC_TOKEN	eyJhbGciOiJkaXlilCJlbmMiOiBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 06:16:16 GMT	Wed, 15 Nov 2023 06:01:16 GMT
THD_Nr	1	.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_PERSIST	""	.homedepot.com	Thu, 14 Nov 2024 20:40:18 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_SSUL_LOG_TOKEN	eyJhbGciOiJkaXlilCJlbmMiOiBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT	Wed, 15 Nov 2023 03:26:26 GMT
THD_SSUL_TOKEN	eyJhbGciOiJkaXlilCJlbmMiOiBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT	Wed, 15 Nov 2023 07:42:29 GMT
THD_TMXX_CACHE	nkGEE3Yrx5QLMQE-wScGh9xgSYjp1...	.homedepot.com	Thu, 16 Nov 2023 03:26:27 GMT	Wed, 15 Nov 2023 20:40:18 GMT
thda.m	280717822251400562802108988508...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
thda.s	b2982b8c-9591-f7c5-ae40-f1dad810...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT	Wed, 15 Nov 2023 20:40:18 GMT
- Indexed DB:** No data shown.
- Local Storage:** No data shown.
- Session Storage:** No data shown.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



3. Determining whether the THD PERSIST cookie should include a user's email address.

The Accused Instrumentalities makes different determinations in situations when the user is logged in from when the user is not logged in. The Accused Instrumentalities may make such determinations, for example, whether to attribute browsing behavior to a user for tracking accuracy.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Based at least in part on (1) the absence of a network request associated with a cookie that identifies a logged-in user (such as the THD_USER cookie), and (2) the presence of a network request [a] associated with a cookie that identifies a device (such as the dsPersistedStorage cookie stored in Session Storage), or [b] associated with a previously-logged in user (such as THD_CART, checkoutPromptsDisplayInfo, C12, C13, the cookie with the key that is the value of a user ID stored in a previously-logged in user's THD_USER cookie, QM, thd-membershipinformation, b2b-hf-dynamic-phone-number, or customerConfiguration stored in Local Storage), the Accused Instrumentalities determine that the THD_PERSIST cookie should omit the user's email address (login).

The screenshot shows the Home Depot website's Sitemap page. The browser's developer console is open, displaying the 'Storage' tab. The 'Cookies' section shows a list of cookies for the domain https://www.homedepot.com. The 'Indexed DB' section shows a list of indexed database entries. The 'Local Storage' section shows a list of local storage entries. The 'Session Storage' section shows a list of session storage entries.

Name	Value	Domain	Expires / Max-Age	Last Accessed
THD_LOCALIZER	%257B%2522WORKFLOW%2522%25...	.homedepot.com	Thu, 14 Nov 2024 20:21:23 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_MCC_ID	2e6bfd13-bfcd-4b90-bd66-1ce02da2...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
THD_MCC_TOKEN	eyJhbGciOiJIaXilCllbmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 06:16:16 GMT	Wed, 15 Nov 2023 06:01:16 GMT
THD_NR	1	.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_PERSIST	""	.homedepot.com	Thu, 14 Nov 2024 20:40:18 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_SSUI_LOG_TOKEN	eyJhbGciOiJIaXilCllbmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT	Wed, 15 Nov 2023 03:26:26 GMT
THD_SSUI_TOKEN	eyJhbGciOiJIaXilCllbmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT	Wed, 15 Nov 2023 07:42:29 GMT
THD_TM_X_CACHE	nkGEE3Yx5QLMQE-wScGh9xgSYjp1...	.homedepot.com	Thu, 16 Nov 2023 03:26:27 GMT	Wed, 15 Nov 2023 20:40:18 GMT
thda.m	280717822251400562802108988508...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
thda.s	b2982b8c-9591-f7c5-ae40-f1dad810...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT	Wed, 15 Nov 2023 20:40:18 GMT

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Enlarged from above:

THD_PERSIST	""	.homedepot.com	Thu, 14 Nov 2024 20:40:18 GMT
THD_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT
THD_SSUI_LOG_TOKEN	eyJhbGciOiJkaXIiLCJlbmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT
THD_SSUI_TOKEN	eyJhbGciOiJkaXIiLCJlbmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT
THD_TMX_CACHE	nkGEE3Yrx5QLMQE-wScGh9xgSYjp1...	.homedepot.com	Thu, 16 Nov 2023 03:26:27 GMT
thda.m	280717822251400562802108988508...	.homedepot.com	Session
thda.s	b2982b8c-9591-f7c5-ae40-f1dad810...	.homedepot.com	Session
thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT

In contrast, the Accused Instrumentalities determine that the THD_PERSIST cookie should include the user's email address when the THD_USER or THD_CUSTOMER cookie is present.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The screenshot displays a web browser window with the Home Depot website. The address bar shows the URL `https://www.homedepot.com/c/site_map`. The page header features a black banner with the text "Black Friday Savings Happening Now. End 11/29". Below this, the navigation bar includes the Home Depot logo, the text "You're shopping Longview", the delivery location "Delivering to 75670", and a search bar. The main navigation bar lists various categories: "All Departments", "Home Decor, Furniture & Kitchenware", "DIY Projects & Ideas", "Project Calculators", "Installation & Services", "Specials & Offers", and "Local Ad & Catalog". The page content shows the "Sitemap - The Home Depot" page. A network inspector is open at the bottom, showing a list of requests. The selected request is a GET request to `www.homedepot.com/site_map` with a status of 200 and a size of 480.15 kB. The response is visible in the right pane, showing a JSON object with the following fields: `THD_NR: 1`, `THD_PERSIST: 1`, `THD_SESSION: 1`, and `THD_TMX_CACHE: 1`.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	Enlarged from above: <pre>THD_PERSIST: "C12=z_user1@b.org;; C12_EXP=1731554787;;C13=self;; C13_EXP=1731554787" THD_SESSION: ""</pre> 4. Determining Storage of a user ID or device ID. Similarly, the Accused Instrumentalities determine that the dsPersistedStorage Session Storage cookie should store the value of the thda.u cookie based at least in part on the presence of a network request associated with the dsPersistedStorage cookie and based at least in part on the absence of a network request associated with the THD_USER cookie in order to attribute browsing behavior to a user for tracking accuracy. In effect, this causes the value of the dsPersistedStorage cookie to reflect a user ID when a user is logged in, and dsPersistedStorage to reflect a device ID when a user is logged out. For example, the dsPersistedStorage cookie shows a device ID corresponding to the value of the thda.u cookie when there is no network request associated with a THD_USER cookie.
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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

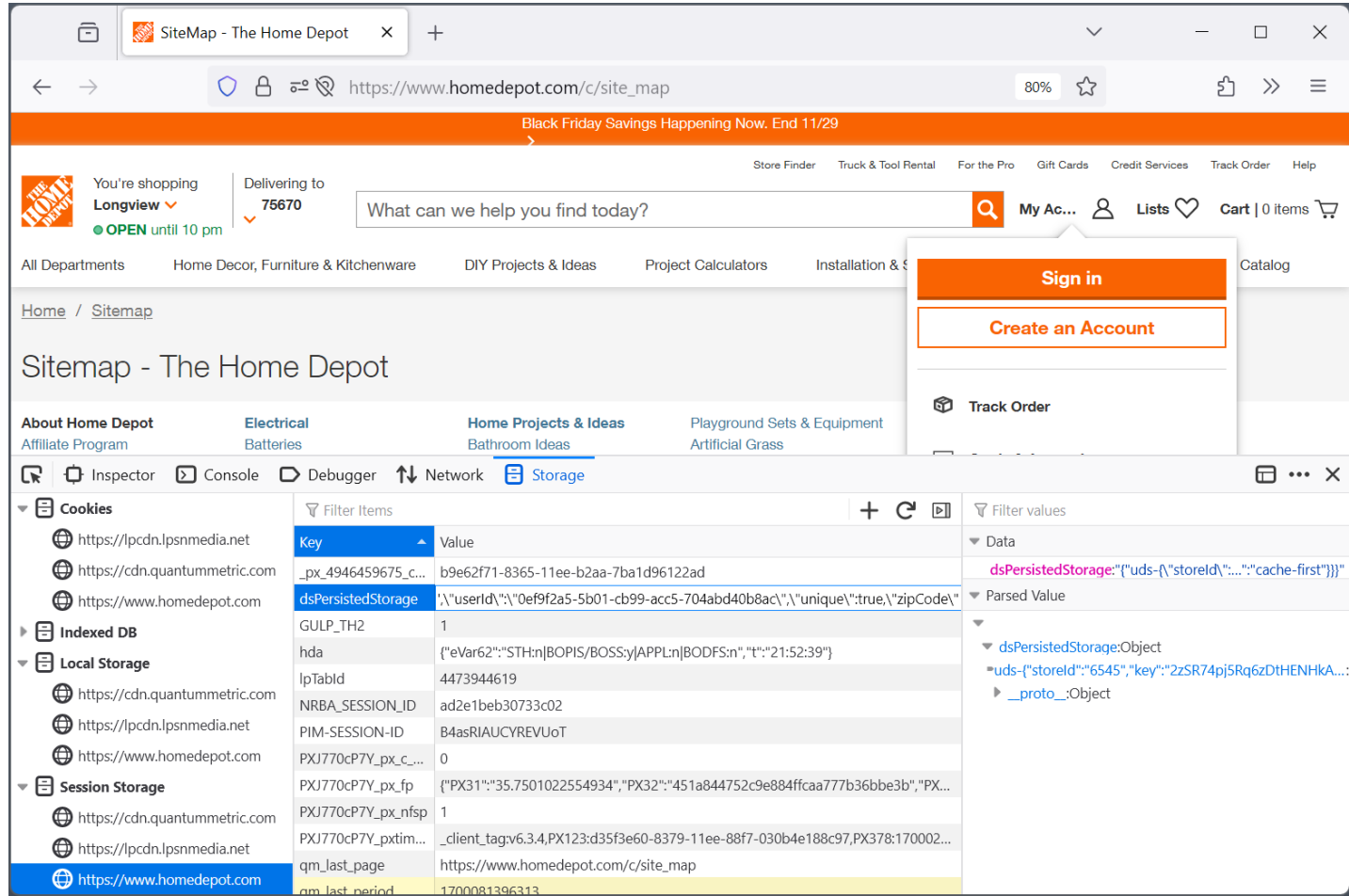


Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

When there is a network request associated with a THD_USER cookie, the dsPersistedStorage cookie shows a user ID corresponding to the value of the THD_USER cookie.

The screenshot displays the Home Depot website's Sitemap page. The browser's address bar shows the URL `https://www.homedepot.com/c/site_map`. The page features a navigation menu with links to 'Cards & Accounts', 'Military Discount', 'Profile', 'Product Lists', and 'Security & Password'. A 'Sign Out' button is also visible. The 'Storage' tab in the Chrome DevTools is open, showing the 'Cookies' section. The 'dsPersistedStorage' cookie is highlighted, and its value is shown in the 'Data' pane. The value is a JSON object: `{\"uds\":{\"storeld\":\"6545\",\"key\":\"2zSR74pj5Rq6zDtHENhKA...\"}}`. The 'Parsed Value' pane shows the object structure: `dsPersistedStorage: Object` with properties `uds` and `__proto__`.

Key	Value
<code>_px_4946459675...</code>	<code>b9e62f71-8365-11ee-b2aa-7ba1d96122ad</code>
<code>dsPersistedStorage</code>	<code>{\"userid\":\"0427EECDDEFC740S\",\"unique\":true,\"zipCode\":\"75605\",\"apiNam</code>
<code>GULP_TH2</code>	<code>1</code>
<code>hda</code>	<code>{\"eVar62\":\"STH:n BOPIS BOSS:y APPL:n BODFS:n\",\"t\":\"21:52:39\"}</code>
<code>lpTabId</code>	<code>4473944619</code>
<code>NRBA_SESSION_ID</code>	<code>ad2e1beb30733c02</code>
<code>PIM-SESSION-ID</code>	<code>B4asRIAUCYREVUoT</code>
<code>PXJ770cP7Y_px...</code>	<code>0</code>
<code>PXJ770cP7Y_px_fp</code>	<code>{\"PX31\":\"35.7501022554934\",\"PX32\":\"451a844752c9e884ffcaa777b36bbe3b\",\"PX27...</code>
<code>PXJ770cP7Y_px...</code>	<code>1</code>
<code>PXJ770cP7Y_pxti...</code>	<code>_client_tag:v6.3.4,PX123:d35f3e60-8379-11ee-88f7-030b4e188c97,PX378:17000269...</code>
<code>qm_last_page</code>	<code>https://www.homedepot.com/c/site_map</code>
<code>qm_last_period</code>	<code>1700080523837</code>

As an additional example, based at least in part on the presence and of cookies in the Cookies storage area as described above, and the absence of cookies in the Local Storage area, the Accused Instrumentalities make determinations regarding cookies to save in Local Storage. For example, if the Local Storage area is empty, and the Cookies storage area has cookies for a logged in user, the Accused Instrumentalities determine that the Local Storage

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

area should be populated with cookies, including cookies that contain the user’s ID value (full walkthrough in 1[b]). As another example, if a user attempts to view their cart, Home Depot determines whether the user can view the items in their cart due to the presence of the THD_USER cookie (the first cookie) and the absence of the THD_CART cookie (the second cookie). If Home Depot finds the THD_USER cookie (*see*, for example, THD_USER cookie verification shown in element 1[a]) but does not find the THD_CART cookie, Home Depot servers will allow the user to view their cart page without signing in again, but will re-download data to create the THD_CART cookie. For example, in the screenshots below, the THD_CART cookie is removed to cause it to be absent, which causes Home Depot servers to download the THD_CART cookie to recreate the user’s cart.

In the screenshots below, the THD_CART cookie is present in local storage.

Storage	
▼ Local Storage	
https://www.homedepot.com/	ak_a
https://customer.homedepot.com/	THD_CART
https://h.online-metrix.net/	thd3276851z-0

The THD_CART cookie is then removed from local storage.

Storage	
▼ Local Storage	
https://www.homedepot.com/	ak_a
https://h.online-metrix.net/	thd3276851z-0
https://customer.homedepot.com/	ed73f20edbf2b73

During a new network request, Home Depot servers request the THD_CART cookie from local storage of the client.

Name	
/mcc-cart/v2	
cart?storeId=4701&anchor=205652219%2C304616955&key=aGAQFG4j6QtVTSWq...	
/multianchordynamicrecs	
Cart?_=1683064489882&	
/mcc-cart/v2	
cart?storeId=4701&anchor=205652219%2C304616955&key=aGAQFG4j6QtVTSWq...	
/multianchordynamicrecs	

× Headers Payload Preview Response Initiator Timing Cookies						
▼ General						
Request URL: https://www.homedepot.com/mcc-cart/v2/Cart?_=1683064489882&						
Request Method: GET						
Status Code: 200						
Remote Address: 104.97.45.184:443						
Referrer Policy: strict-origin-when-cross-origin						

Because the THD_CART cookie is not present, the THD_USER cookie is used as one input in order for the client to request that the Home Depot servers re-create the THD_CART cookie.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Name

 nashy.png
assets.thdstatic.com/images/v1/brand-logos

☐ Cart?_=1690304194361&/mcc-cart/v2

 bat.svg
assets.homedepot-static.com/hf/images/svg

×

Headers

Payload

Preview

Response

PIM-SESSION-ID	XgeDVILXY
ftr_ncd	6
THD_USER	"eyJjdXN0b"
THD_USER_SESSION	eyJJzJoiMDU
THD_TRANSACTION	aebd434c-5
WORKFLOW	LOCALIZE

The THD_CART cookie is then re-created.

Name

 nashy.png
assets.thdstatic.com/images/v1/brand-logos

☐ Cart?_=1690304194361&/mcc-cart/v2

 bat.svg
assets.homedepot-static.com/hf/images/svg

 lifeproof.png
assets.thdstatic.com/images/v1/brand-logos

 lifeproof_v1.svg
assets.thdstatic.com/images/v1/brand-logos

 glacier-bay.png

×

Headers

Payload

Preview

Response

Initiator

Ti

1 {
- "CartModel": {
- "userId": "0514 [REDACTED]"
- "orderId": "HG [REDACTED]"
- "merchandiseItemsSubTotal": "17.97",
- "merchandiseItemsGrandTotal": "17.97",
- "cartTotal": "17.97",
- "currency": "USD",
- "totalItemCount": "1",
- "localStoreId": "4007",
- "expressCheckout": false,
- "paypalExpress": true,
- "automatedOrderCompletion": "Y",
- "itemModels": [
- {
- "itemId": "304616955",
- }-]
- }- }

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

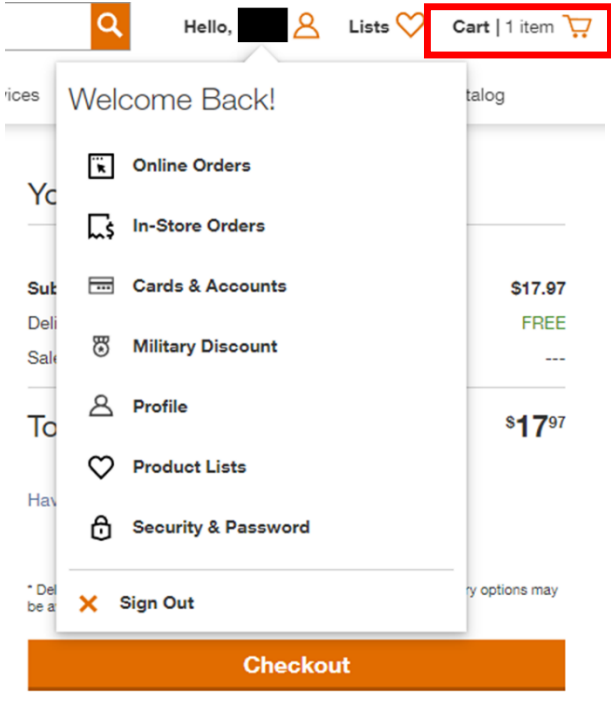
	In the user interface, the cart appears with the items that were present.  In contrast, if Home Depot does not find the THD_USER cookie, Home Depot servers will not allow the user to view their cart. For example, if the THD_USER cookie is removed, a user attempting to view their cart will be met with only a request to sign in:
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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

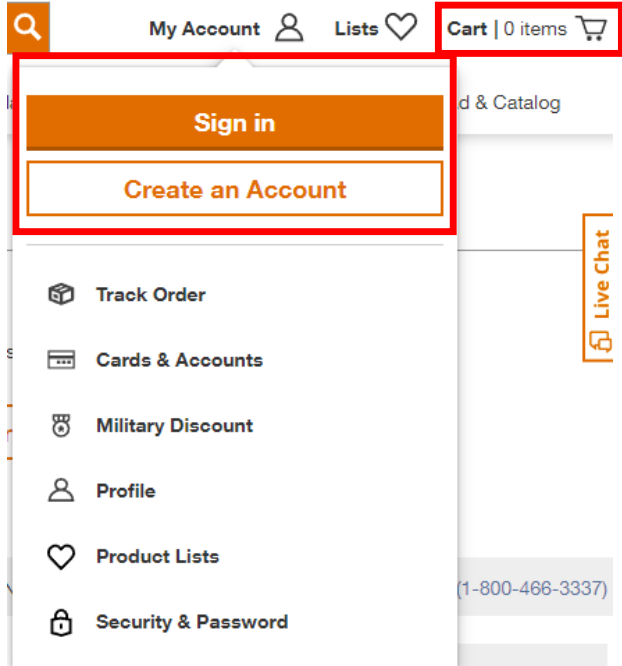
	 An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.
1[f] and a memory coupled to the one or more processors and configured to provide the one or more processors	Each Home Depot web server (including the edge servers controlled by Home Depot) comprises a memory coupled to the one or more processors and configured to provide the one or more processors with instructions. For example, Home Depot runs at least Nginx on its web servers, which requires memory coupled to the one or more processors and configured to provide the one or more processors with instructions.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

with instructions.	Site Info - Homedepot.com Overview of web technologies used by Homedepot.com. Website Background <table border="1"> <tr> <td>Description on Homepage</td><td>The Home Depot Shop online for all your home improvement needs: appliances, bathroom decorating ideas, kitchen remodeling, patio furniture, power tools, bbq grills, carpeting, lumber, concrete, lighting, ceiling fans and more at The Home Depot.</td></tr> <tr> <td>Popularity rank</td><td>Top 1k among all websites</td></tr> </table> Content Management System <table border="1"> <tr> <td>Drupal 9 1% of sites use a newer version used on a subdomain</td><td>Drupal is an open source content management system written in PHP, originally developed by Dries Buytaert.</td></tr> </table> Server-side Programming Language <table border="1"> <tr> <td>PHP used on a subdomain</td><td>PHP is a scripting language for creating websites.</td></tr> </table> Client-side Programming Language <table border="1"> <tr> <td>JavaScript</td><td>JavaScript is a lightweight, object-oriented, cross-platform scripting language, often used within web pages.</td></tr> </table> JavaScript Libraries <table border="1"> <tr> <td>jQuery</td><td>jQuery is a JavaScript library that simplifies HTML document traversing, event handling, animating and Ajax interaction. Originally developed by John Resig.</td></tr> <tr> <td>React</td><td>React is an open source JavaScript library for building user interfaces, developed by Facebook.</td></tr> <tr> <td>Angular used until recently</td><td>Angular is a JavaScript library for building web applications, developed by Google.</td></tr> </table> Web Server <table border="1"> <tr> <td>Nginx</td><td>Nginx (pronounced as "engine X") is a lightweight open source web server developed by Igor Sysoev.</td></tr> </table> Site Info - Homedepot.com. https://w3techs.com/sites/info/homedepot.com An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.	Description on Homepage	The Home Depot Shop online for all your home improvement needs: appliances, bathroom decorating ideas, kitchen remodeling, patio furniture, power tools, bbq grills, carpeting, lumber, concrete, lighting, ceiling fans and more at The Home Depot.	Popularity rank	Top 1k among all websites	Drupal 9 1% of sites use a newer version used on a subdomain	Drupal is an open source content management system written in PHP, originally developed by Dries Buytaert.	PHP used on a subdomain	PHP is a scripting language for creating websites.	JavaScript	JavaScript is a lightweight, object-oriented, cross-platform scripting language, often used within web pages.	jQuery	jQuery is a JavaScript library that simplifies HTML document traversing, event handling, animating and Ajax interaction. Originally developed by John Resig.	React	React is an open source JavaScript library for building user interfaces, developed by Facebook.	Angular used until recently	Angular is a JavaScript library for building web applications, developed by Google.	Nginx	Nginx (pronounced as "engine X") is a lightweight open source web server developed by Igor Sysoev.
Description on Homepage	The Home Depot Shop online for all your home improvement needs: appliances, bathroom decorating ideas, kitchen remodeling, patio furniture, power tools, bbq grills, carpeting, lumber, concrete, lighting, ceiling fans and more at The Home Depot.																		
Popularity rank	Top 1k among all websites																		
Drupal 9 1% of sites use a newer version used on a subdomain	Drupal is an open source content management system written in PHP, originally developed by Dries Buytaert.																		
PHP used on a subdomain	PHP is a scripting language for creating websites.																		
JavaScript	JavaScript is a lightweight, object-oriented, cross-platform scripting language, often used within web pages.																		
jQuery	jQuery is a JavaScript library that simplifies HTML document traversing, event handling, animating and Ajax interaction. Originally developed by John Resig.																		
React	React is an open source JavaScript library for building user interfaces, developed by Facebook.																		
Angular used until recently	Angular is a JavaScript library for building web applications, developed by Google.																		
Nginx	Nginx (pronounced as "engine X") is a lightweight open source web server developed by Igor Sysoev.																		
2. The system of claim 1 wherein the client device	The Accused Instrumentalities comprise the system of claim 1 wherein the client device is identified by a server in a domain different from a server that caused the two different types of cookies to be stored to the client device during the first and second previous network sessions.																		

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

is identified by a server in a domain different from a server that caused the two different types of cookies to be stored to the client device during the first and second network sessions.

For example, Home Depot contracts with third parties to allow cookies to be served on a customer's device. When a customer, using a client device, visits homedepot.com, the Accused Instrumentalities store cookies from bing.com, tagdelivery.com, agkn.com, doubleclick.net, and google.com, among others. These cookies allow a server in a different domain to identify the client device.

The screenshot shows the Home Depot website in a web browser. The Chrome DevTools Application tab is open, displaying the 'Cookies' section. The cookies are organized by domain, showing cookies from google.com, bing.com, doubleclick.net, tagdelivery.com, agkn.com, and homedepot.com. The cookies include session IDs, user IDs, and other identifiers used for tracking and personalization.

Name	Value	Domain	P...	Ex...	Size	Http...	Se...	Sa...	Par...	P...
1P_JAR	2023-11-16...	.google.com	/	20...	19		✓	No...		Me...
AEC	Ackid1T1fFO...	.google.com	/	20...	61	✓	✓	Lax		Me...
MR	0	.bing.com	/	20...	3		✓	No...		Me...
IDE	AHWqTUn78...	.doubleclick.net	/	20...	70	✓	✓	No...		Me...
USER_ID	1580410c-9e...	.tagdelivery.com	/	20...	43		✓	No...		Me...
u	Cj0CEAAAAA...	.agkn.com	/	20...	42		✓	No...		Me...
ab	0001%3AG9...	.agkn.com	/	20...	43		✓	No...		Me...
NID	511=dQyAtV...	.google.com	/	20...	178	✓	✓	No...		Me...
RT	*z=1&dm=w...	.www.homedepot.c...	/	20...	97			Lax		Me...
QuantumMetric...	8cce7ea5d9d...	.homedepot.com	/	20...	54		✓	No...		Me...
s_sess	%20s_pv_pN...	.homedepot.com	/	Ses...	315					Me...
_pxde	ad54622b81...	.www.homedepot.com	/	20...	106			Lax		Me...
QuantumMetric...	592478b78e...	.homedepot.com	/	20...	51		✓	No...		Me...
_gid	GA1.2.82096...	.homedepot.com	/	20...	30					Me...
_meta_acuityAds...	avid=853207...	.www.homedepot.com	/	20...	38		✓			Me...
_meta_acuityAds...	853207210772	.www.homedepot.com	/	20...	32		✓			Me...
_meta_revjet_rev...	5077403976...	.www.homedepot.com	/	20...	42		✓			Me...
_meta_xandr_uid2	uidid2=8664...	.www.homedepot.com	/	20...	41		✓			Me...
thda.u	9e4d06f9-9e...	.homedepot.com	/	20...	42					Me...
_meta_xandr_uid	8664927902...	.www.homedepot.com	/	20...	34		✓			Me...
THD_SESSION		.homedepot.com	/	20...	11					Me...
trx	5077403976...	.www.homedepot.com	/	20...	22		✓			Me...
_meta_neustar_f...	*E1tLudqCq...	.www.homedepot.com	/	20...	135		✓			Me...
thda.m	3125089969...	.homedepot.com	/	Ses...	44					Me...

www.homedepot.com

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	For example, the cookie stored by the doubleclick.net server is an IDE cookie, which Google uses for advertising, including “limiting the number of times an ad is shown to a user,” which necessarily requires identification of a client device. Our advertising and measurement cookies To help our partners manage their advertising and websites, we offer many products, including AdSense, Google Ads, Google Analytics, and a range of products within the Google Marketing Platform. When users visit a page or see an ad that uses one of these products, either on Google services or on other sites and apps, various cookies may be sent to their browser. These may be set from a few different domains, including google.com, doubleclick.net, googlesyndication.com, or googleservices.com, or the domain of our partners’ sites. Some of our advertising and measurement products enable our partners to use other services in conjunction with ours (like an ad measurement and reporting service), and these services may send their own cookies to your browser. These cookies will be set from their domains. The cookie information on this site is made available to assist with the use of Google’s ad products and reflects cookies that can be associated with these products and may be sent to a user’s browser. Cookie purposes reflect the range of products and features supported in our ad products, but individual cookies may rely on only a subset of purposes, depending on implementation of the product. Although the cookies listed here are those associated with our advertising and measurement products, you can find more details at How Google Uses Cookies. Our advertising and measurement cookies. Available at https://business.safety.google/adscookies/ Advertising - Google uses cookies for advertising, including serving and rendering ads, personalizing ads (depending on your ad settings at g.co/adsettings), limiting the number of times an ad is shown to a user, muting ads you have chosen to stop seeing, and measuring the effectiveness of ads. Our advertising and measurement cookies. Available at https://business.safety.google/adscookies/
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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

IDE

Advertising

Campaign Manager,
Display & Video 360,
Google Ad Manager,
Google Analytics,
Search Ads 360

13 months EEA UK /
24 months elsewhere

doubleclick.net

Our advertising and measurement cookies. Available at <https://business.safety.google/adscookies/>

As another example, the cookie stored by Microsoft’s bing.com server stores a MUID, which Microsoft uses for identifying “unique web browsers,” which is an identification of a client device.

What cookies does Clarity set?

Name	Purpose	Value Passed
_clk	Persists the Clarity User ID and preferences, unique to that site is attributed to the same user ID.	String
_clsk	Connects multiple page views by a user into a single Clarity session recording.	String
CLID	Identifies the first-time Clarity saw this user on any site using Clarity.	String
ANONCHK	Indicates whether MUID is transferred to ANID, a cookie used for advertising. Clarity doesn’t use ANID and so this is always set to 0.	Flag
MR	Indicates whether to refresh MUID.	Flag
MUID	Identifies unique web browsers visiting Microsoft sites. These cookies are used for advertising, site analytics, and other operational purposes.	GUID
SM	Used in synchronizing the MUID across Microsoft domains.	Character Flags

Cookie List. Published 5/10/2023. Available at <https://learn.microsoft.com/en-us/clarity/setup-and-installation/cookie-list>

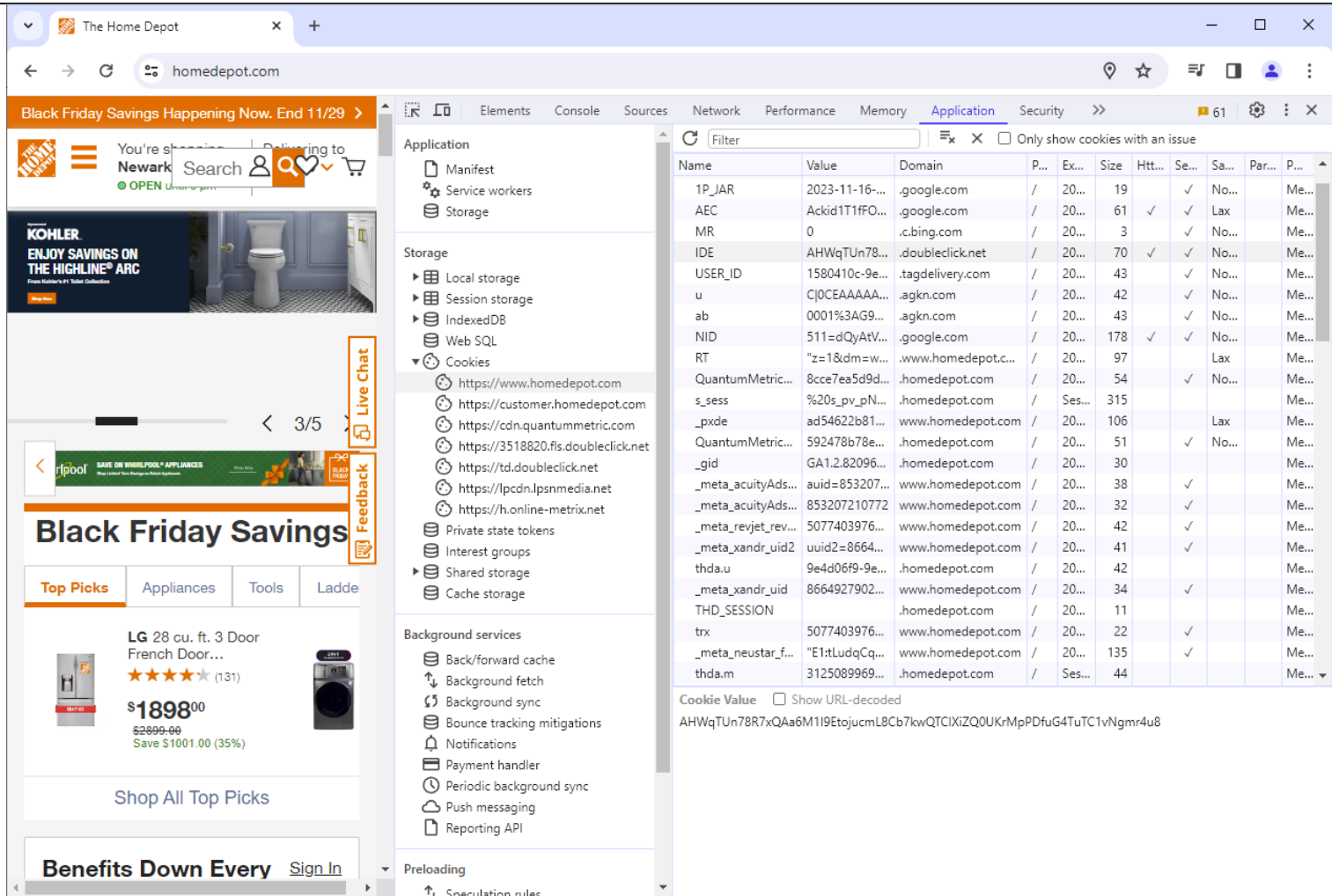
Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.
3. The system of claim 1 wherein the client device is identifiable based at least in part on a presence of either one of the first cookie and the second cookie in the respective first and second client device browser storage areas.	The Accused Instrumentalities comprise the system of claim 1 wherein the client device is identifiable based at least in part on a presence of either one of the first cookie and the second cookie in the respective first and second client device browser storage areas. As described in element 1[a], the “first” cookie can be, for example, any cookie in a first one of three storage areas (Cookie storage, Local Storage, and Session Storage). The “second” cookie can be, for example, any cookie in any of the other two storage areas. As further explained above, the “Cookie” browser storage area stores cookies such as “thda.u,” “THD_USER,” “THD_USER_SESSION,” “THD_PERSIST,” and “THD_CUSTOMER.” The “Local Storage” browser storage area stores cookies such as “THD_CART”, User ID, “C12”, “C13”, “thd-membershipinformation,” “b2b-hf-dynamic-phone-number,” “customerConfiguration,” QM, and “gpc.” The “Session Storage” browser storage area stores cookies such as “dsPersistedStorage.” For example, the client device may be identifiable based at least in part on a presence of a first cookie that contains a device ID, such as the thda.u cookie stored in Cookie storage. The client device is also identifiable based at least in part on a presence of a second cookie such as a dsPersistedStorage cookie in Session Storage when it contains a device ID. (see 1[a] for detailed analysis). As another example, as a user’s ID becomes linked with a device ID, a client device may become identifiable by a cookie containing a user ID such as a THD_USER cookie in Local Storage. Such a cookie may be considered either a first or second cookie and combined with any other cookie in a different browser storage area such as the thda.u or the dsPersistedStorage cookies identified above. An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.
5. The system of claim 1 wherein in response to the performed	The Accused Instrumentalities comprise the system of claim 1 wherein in response to the performed determination, the one or more processors are configured to cause a third cookie to be stored at the client device, wherein the third cookie is one of the first type and the second type. Several determinations may be performed by the Accused Instrumentalities as described in 1[e]:

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

determination, the one or more processors are configured to cause a third cookie to be stored at the client device, wherein the third cookie is one of the first type and the second type.	1. Determining whether a current user who is not logged in is the same user who was previously logged in. 2. Determining whether to request certain cookies. 3. Determining whether the THD_PERSIST cookie should include a user's email address. 4. Determining Storage of a user ID or device ID. As one example, in response to the performed determination of example 1, the one or more processors are configured to cause THD_PERSIST to become blank when a user logs out in order to remove the user's email from the cookie. As another example, in response to the performed determination of example 4, the one or more processors are configured to cause dsPersistedStorage to store the device ID of thda.u rather than the user ID of THD_USER when a user logs out in order to track browsing by device rather than user. In addition, the Accused Instrumentalities also store cookies from bing.com, tagdelivery.com, agkn.com, doubleclick.net, and google.com, among others. These cookies allow a server in a different domain to identify the client device. In response to the performed determination, the one or more processors are configured to cause a third cookie to be stored at the client device, wherein the third cookie is of the first type – that is, stored in the Cookies area of the browser.
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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



The screenshot shows the Home Depot website during a Black Friday promotion. The browser's developer tools are open, displaying the 'Application' tab. The 'Storage' section shows various cookies, and the 'Background services' section lists several services. The 'Cookies' list is expanded, showing a table of cookies with their names, values, domains, and expiration dates.

Name	Value	Domain	P...	Ex...	Size	Htt...	Se...	Sa...	Par...	P...
1P_JAR	2023-11-16-...	.google.com	/	20...	19		✓	No...		Me...
AEC	Ackid1T1fO...	.google.com	/	20...	61	✓	✓	Lax		Me...
MR	0	.c.bing.com	/	20...	3		✓	No...		Me...
IDE	AHWqTUn78...	.doubleclick.net	/	20...	70	✓	✓	No...		Me...
USER_ID	1580410c-9e...	.tagdelivery.com	/	20...	43		✓	No...		Me...
u	Cj0CEAAAAA...	.agkn.com	/	20...	42		✓	No...		Me...
ab	0001%3AG9...	.agkn.com	/	20...	43		✓	No...		Me...
NID	511=dQyAtV...	.google.com	/	20...	178	✓	✓	No...		Me...
RT	"z=1&dm=w...	.www.homedepot.c...	/	20...	97			Lax		Me...
QuantumMetric...	8cce7ea5d9d...	.homedepot.com	/	20...	54		✓	No...		Me...
s_sess	%20s_pv_pN...	.homedepot.com	/	Ses...	315					Me...
_pxde	ad54622b81...	.www.homedepot.com	/	20...	106			Lax		Me...
QuantumMetric...	592478b78e...	.homedepot.com	/	20...	51		✓	No...		Me...
_gid	GA1.2.82096...	.homedepot.com	/	20...	30					Me...
_meta_acuityAds...	audid=853207...	.www.homedepot.com	/	20...	38		✓			Me...
_meta_acuityAds...	853207210772	.www.homedepot.com	/	20...	32		✓			Me...
_meta_revjet_rev...	5077403976...	.www.homedepot.com	/	20...	42		✓			Me...
_meta_xandr_uid2	uuid2=8664...	.www.homedepot.com	/	20...	41		✓			Me...
thda.u	9e4d06f9-9e...	.homedepot.com	/	20...	42					Me...
_meta_xandr_uid	8664927902...	.www.homedepot.com	/	20...	34		✓			Me...
THD_SESSION		.homedepot.com	/	20...	11					Me...
trx	5077403976...	.www.homedepot.com	/	20...	22		✓			Me...
_meta_neustar_f...	"E1tLudqCq...	.www.homedepot.com	/	20...	135		✓			Me...
thda.m	3125089969...	.homedepot.com	/	Ses...	44					Me...

Cookie Value ☐ Show URL-decoded
 AHWqTUn78R7xQAa6M1I9EtojumL8Cb7kwQTCIXiZQ0UKrMpPDfuG4TuTC1vNgmr4u8

www.homedepot.com

An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

6[pre]. A method, comprising:	To the extent the preamble is limiting, Home Depot performs the claimed method using the Accused Instrumentalities.
6[a]. receiving a network resource request from a client device, wherein the network resource request corresponds to a first cookie of a first type that was caused to be stored to the client device during a first previous network session, wherein the first cookie of the first type was caused to be stored to the client device at least in part by	The Accused Instrumentalities receive a network resource request from a client device, wherein the network resource request corresponds to a first cookie of a first type that was caused to be stored to the client device during a first previous network session, wherein the first cookie of the first type was caused to be stored to the client device at least in part by causing the client device to initiate a set of network resource requests determined during the first previous network session, wherein the client device initiating the set of network resource requests caused data representative of the set of network resource requests to be stored at the client device, wherein a second cookie of a second type different from the first type was caused to be stored at the client device during a second previous network session, and wherein the first cookie of the first type is stored in a first client device browser storage area and the second cookie of the second type is stored in a second client device browser storage area different from the first client device browser storage area. Client devices accessing Home Depot's website receive network resources including cookies and other similar tracking data. For example, Home Depot's privacy and security statement describes using multiple types of tracking technologies, such as cookies, web beacons, and pixels.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

causing the client device to initiate a set of network resource requests determined during the first previous network session, wherein the client device initiating the set of network resource requests caused data representative of the set of network resource requests to be stored at the client device, wherein a second cookie of a second type different from the first type was caused to be stored at the	Our Tracking Tools We collect personal and other information using <u>digital tracking tools, such as cookies and web beacons</u>, when you use our websites or mobile applications, interact with our emails or applications provided on connected devices, or otherwise engage with our digital offerings. We also partner with third parties that collect information this way. These third parties may place similar tracking tools on our websites, applications, and advertising to facilitate tracking, advertising, and measurement services. The tools may collect information about your activities over time and on various digital services offered by us or others. The tools that we, our vendors, and third parties use include: • Browser and flash cookies. Cookies are small text files that websites send to your computer or other connected device to identify your browser or to store information or settings. Your browser may provide the ability to be notified when you receive certain types of cookies and how to restrict or disable certain cookies. Flash cookies generally can be disabled only by accessing Adobe Flash settings (information available here) • Server logs, which record information about the device, browser, operating system, network, and other resources you use to access our digital services • Web beacons and pixels. These are small electronic images deployed on websites and emails that collect information about how users interact with content • Application software. Software in our mobile and other connected-device applications collects information about how you interact with the digital services https://www.homedepot.com/privacy/privacy-and-security-statement The cookies and trackers used by Home Depot are stored in different locations on the client device, such as, for example, in Local Storage, Session Storage, Cookies, and Shared Storage.
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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

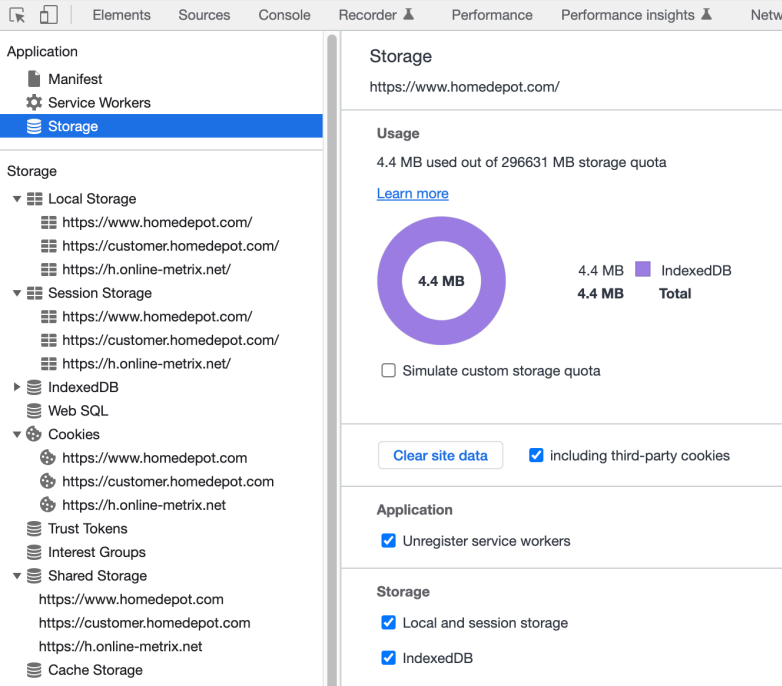
client device during a second previous network session, and wherein the first cookie of the first type is stored in a first client device browser storage area and the second cookie of the second type is stored in a second client device browser storage area different from the first client device browser storage area;	 Screenshot of “Application” tab in Google Chrome. Client devices accessing the Home Depot’s website with HTTP resource requests receive network resources including cookies and other similar tracking data. For example, Home Depot’s privacy and security statement describes using multiple types of tracking technologies, such as cookies, web beacons, and pixels.
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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Our Tracking Tools

We collect personal and other information using digital tracking tools, such as cookies and web beacons, when you use our websites or mobile applications, interact with our emails or applications provided on connected devices, or otherwise engage with our digital offerings. We also partner with third parties that collect information this way. These third parties may place similar tracking tools on our websites, applications, and advertising to facilitate tracking, advertising, and measurement services.

The tools may collect information about your activities over time and on various digital services offered by us or others.

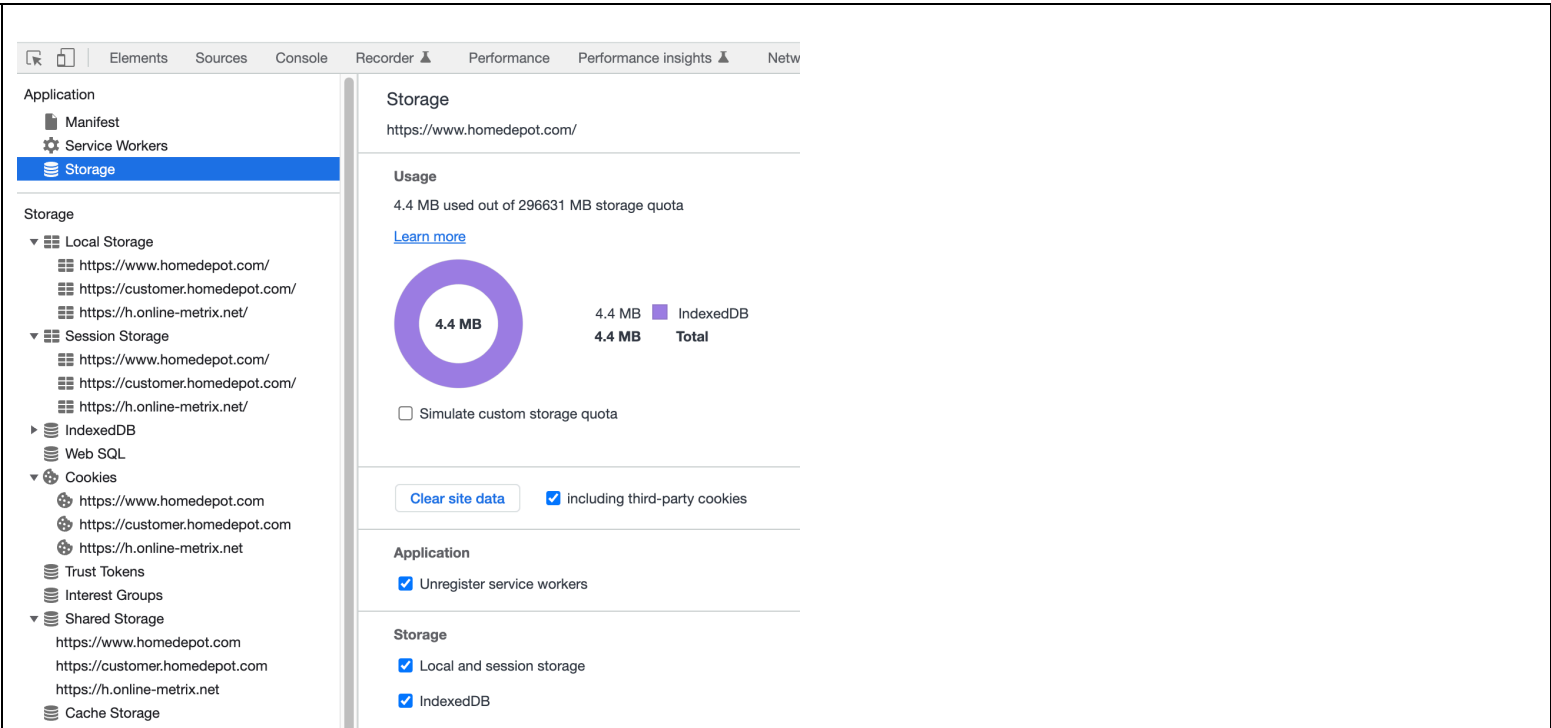
The tools that we, our vendors, and third parties use include:

- Browser and flash cookies. Cookies are small text files that websites send to your computer or other connected device to identify your browser or to store information or settings. Your browser may provide the ability to be notified when you receive certain types of cookies and how to restrict or disable certain cookies. Flash cookies generally can be disabled only by accessing Adobe Flash settings (information available [here](#))
- Server logs, which record information about the device, browser, operating system, network, and other resources you use to access our digital services
- Web beacons and pixels. These are small electronic images deployed on websites and emails that collect information about how users interact with content
- Application software. Software in our mobile and other connected-device applications collects information about how you interact with the digital services

<https://www.homedepot.com/privacy/privacy-and-security-statement>

The cookies and trackers used by Home Depot are stored in different locations on the client device, such as, for example, in Local Storage, Session Storage, and Cookies.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



Screenshot of “Application” tab in Google Chrome.

Home Depot stores a first cookie of a first type that was caused to be stored to the client device during a first previous network session, wherein the first cookie of the first type was caused to be stored to the client device at least in part by causing the client device to initiate a set of network resource requests determined during the first previous network session, wherein the client device initiating the set of network resource requests caused data representative of the set of network resource requests to be stored at the client device.

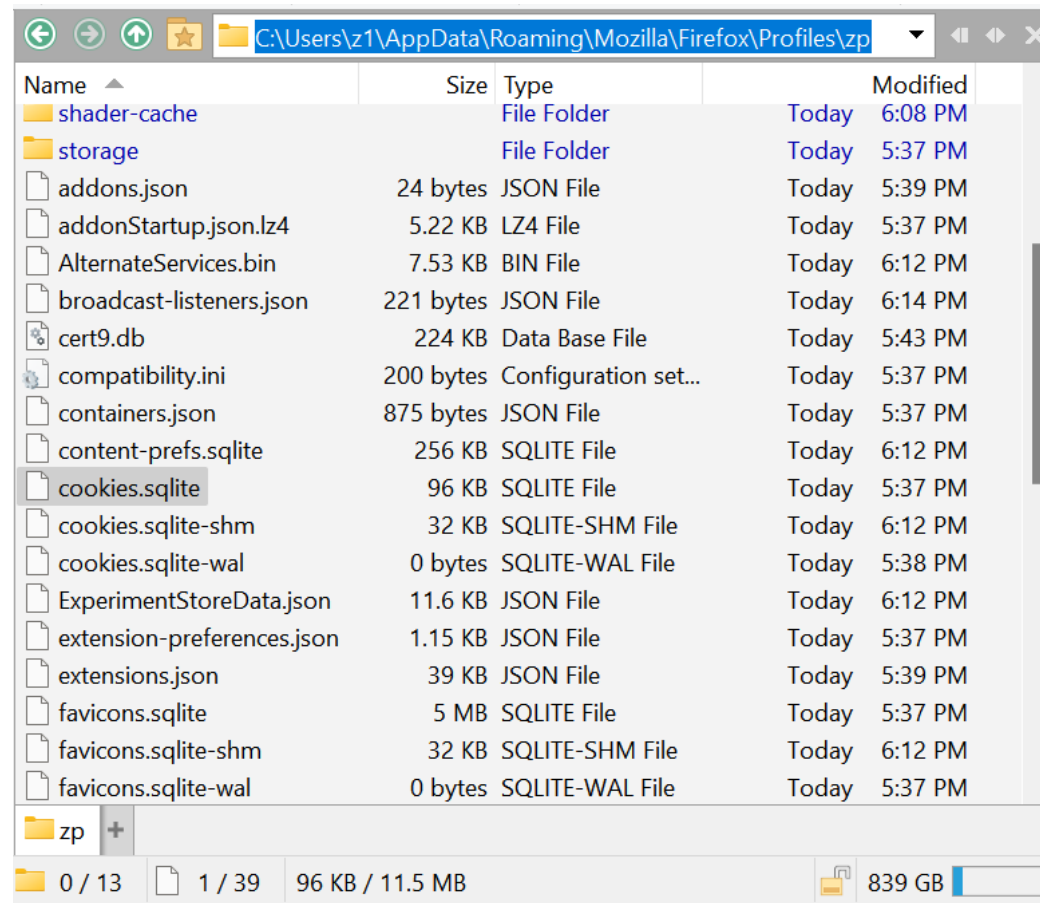
As explained further below, there may be at least three distinct browser storage areas – Cookies, Local Storage, and Session Storage. The “Cookie” browser storage area stores cookies such as “thda.u,” “THD_USER,” “THD_USER_SESSION,” “THD_PERSIST,” and “THD_CUSTOMER.” The “Local Storage” browser storage area stores cookies such as “THD_CART,” “checkoutPromptsDisplayInfo”, User ID, “C12”, “C13”, “thd-membershipinformation,” “b2b-hf-dynamic-phone-number,” “customerConfiguration,” QM, and “gpc.” The “Session Storage” browser storage area stores cookies such as “dsPersistedStorage.”

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	The “first” cookie can be, for example, any cookie in a first one of those three storage areas. The “second” cookie can be, for example, any cookie in any of the other two storage areas. The following screen shots provide an example of how the Accused Instrumentalities cause a client to store cookies in different browser storage areas, starting when a user first visits homedepot.com, and subsequently when a user signs in to homedepot.com. The initial visit and the subsequent sign in may each occur during different sessions, including the “first previous network session” and the “second previous network session.” Timestamps in the form of entries in a database or file modification dates, for example, show that certain storage occurred at particular times.
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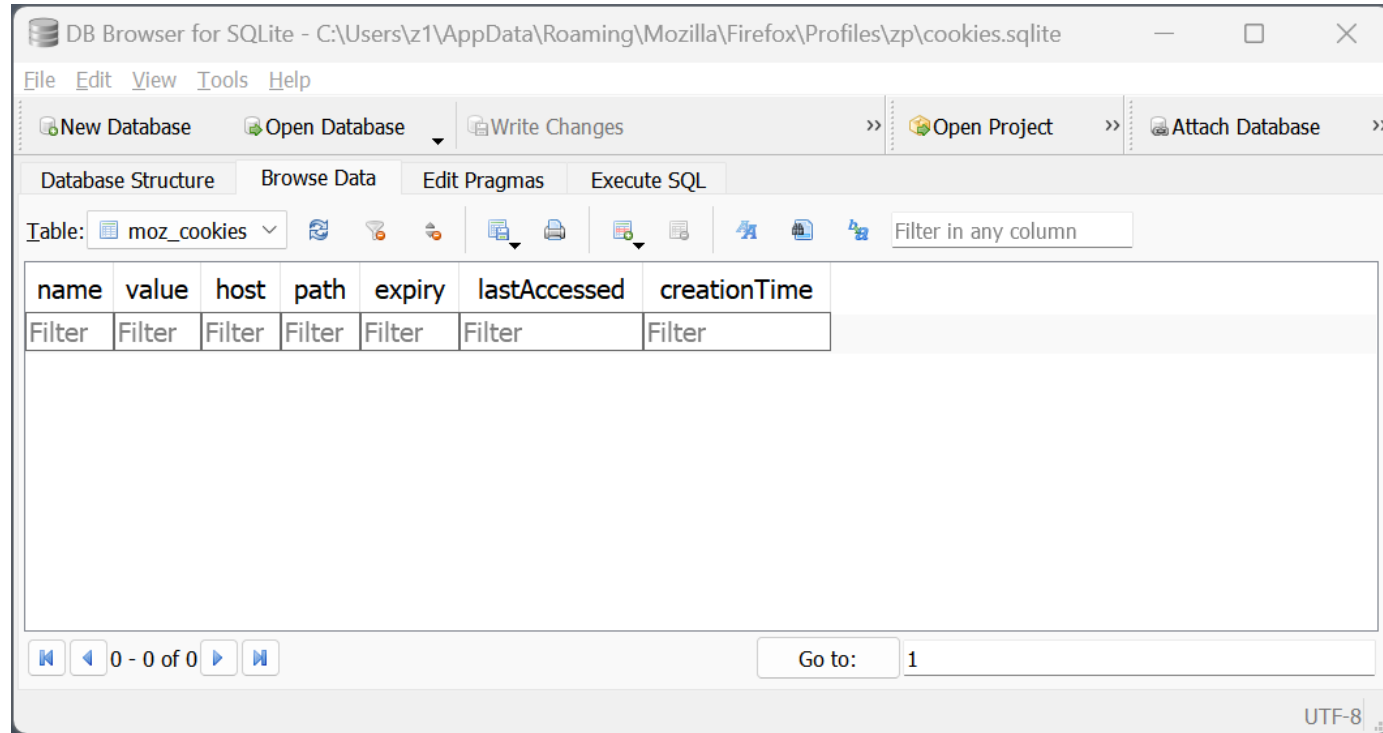
Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

As a first example, in a first previous network session, the Firefox browser profile has never been used. The browser stores first cookies (received from servers controlled by Home Depot) in the browser's storage area in a sqlite database in one browser storage area at C:\Users\z1\AppData\Roaming\Mozilla\Firefox\Profiles\zp\cookies.sqlite.



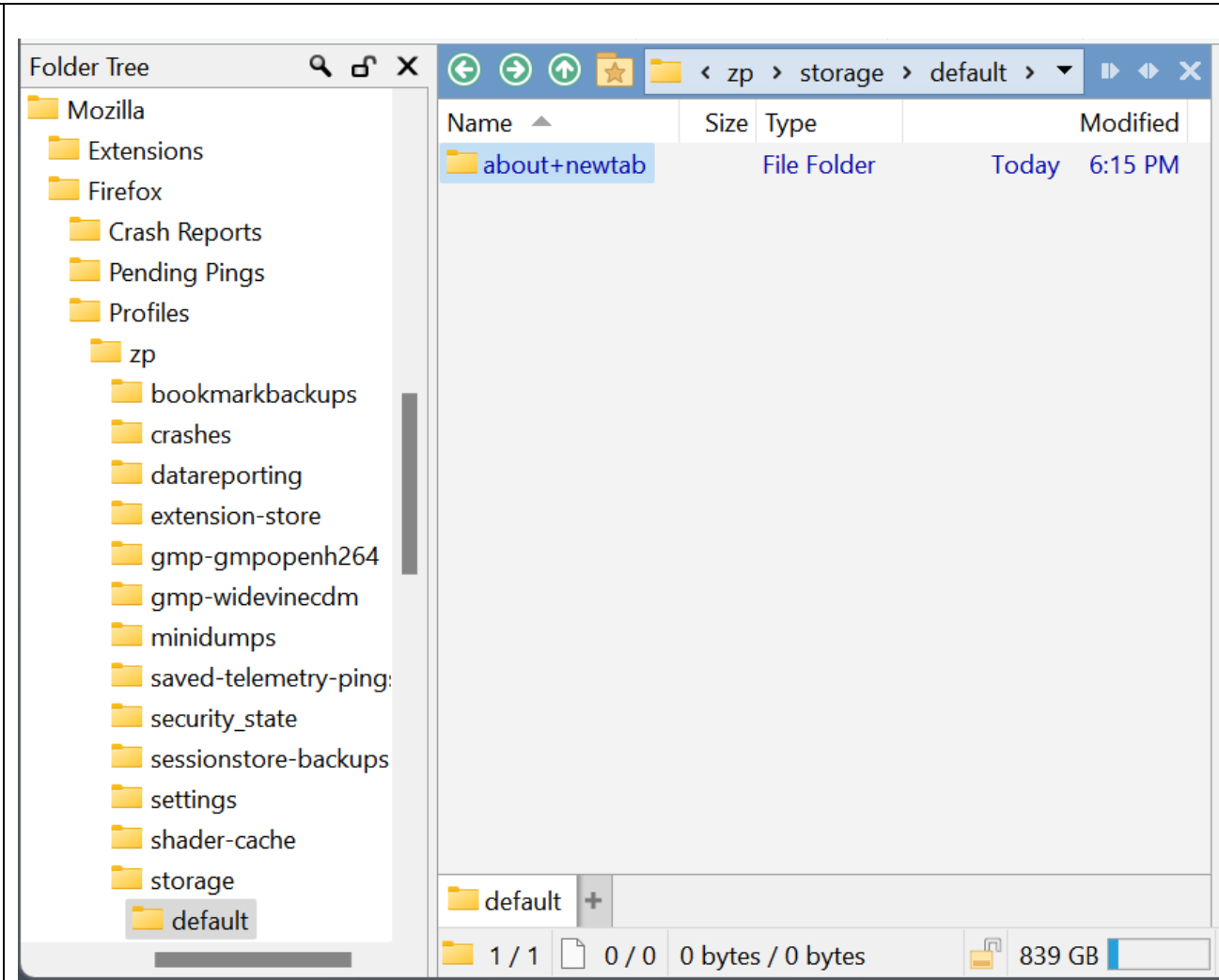
The cookies database is empty, as can be seen by opening the database.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



The browser's "Local Storage" folder is saved to the user's computer at a different browser storage area at C:\Users\z1\AppData\Roaming\Mozilla\Firefox\Profiles\zp\storage\default. Initially, the only folder in the browser's local storage is a folder for the "about:welcome" page for new browser users. That is, the Accused Instrumentalities have not yet caused the client to store anything.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



In this first example, when a user visits homedepot.com, the Accused Instrumentalities cause the browser to store data in folders within local storage and store cookies in the browser's cookies database, even when the user has not logged in.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

History

Search history

Today

Firefox Privacy N...

The Home Depot

Black Friday Savings Happening Now. End 11/29

The Home Depot

You're shopping Longview

Delivering to 75670

Search

UP TO \$2300 OFF*

UP TO \$900 OFF*

Inspector

Console

Debugger

Network

Storage

Cookies

Indexed DB

Local Storage

Session Storage

Key	Value
deviceInfo1	["cpuCores":16,"deviceClassification":2,"webgl2Supported":true]
dsPersistedStorage	{}
ed73f20edbf2b73	85a626411f5d4b9c9bcca19b9766eb90_1855535112785
forterToken	6aeca8b7897496a86485af98e66cf3b,1700015181080
localizationMethod	change store overlay
lpLastVisit-31564604	1700015183840
NRBA_SESSION	["value":"9a3b89abad8b3869","inactiveAt":1700018837312,"expiresAt":1700029513135,"u...
PXJ770cP7Y_px_fp	["PX31":"35.7501022554934","PX32":"451a844752c9e884ffcaa777b36bbe3b","PX274":"17b...
Q_INTER	["SI_ehszkP3JlwnjF77":1700015181.45,"SI_cG97Lo3Q9PaJsmG":1700015181.452]
QM	["shouldLogResources":false,"s":"a92b22b03f514f6580adb65cd7ed9d57","events":["i":154,...
QSI_ActionSetHistory	["AS_78122939":1700015181447,"AS_084Y1IruHbCTzG5":1700015181448,"AS_9FE0xCZBF...
signInReminderTimestamp	1700015112383
tgt:tlm:2	["execution":1009,"parsing":0,"request":{"timeToFirstByte":43,"responseSize":301},"telemetr...
tgt:tlm:lower	1
tgt:tlm:upper	2
thd3276851z-0	0

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

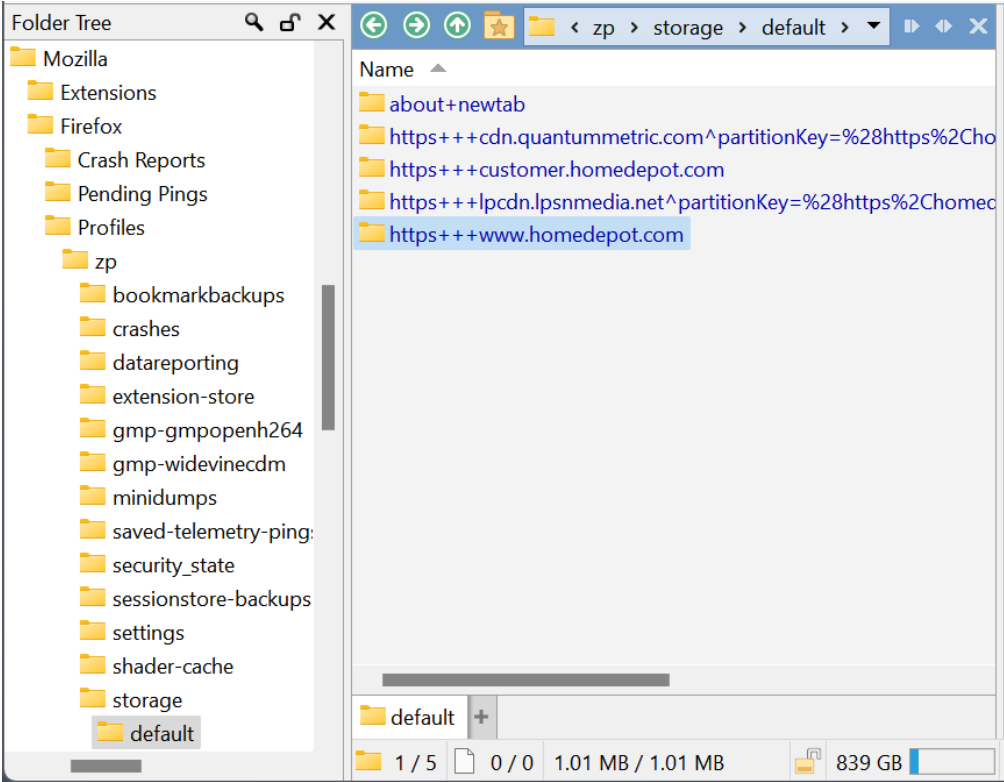
	The data can also be seen stored on the client device through the file system.  A comparison between the browser view and local storage view shows the cookies reflected in the browser's local storage are stored in the file system.
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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

A screenshot of a browser's 'Local Storage' interface. On the left, a list of URLs is shown with a globe icon: 'about:srcdoc', 'https://cdn.quantummetric.com', 'https://customer.homedepot.com', 'https://lpcdn.lpsnmedia.net', and 'https://www.homedepot.com' (which is highlighted in blue). On the right, a corresponding list of folder names is shown: 'https+++cdn.quantummetric.com^p', 'https+++customer.homedepot.com', 'https+++lpcdn.lpsnmedia.net^partiti', and 'https+++www.homedepot.com' (which is highlighted in blue).

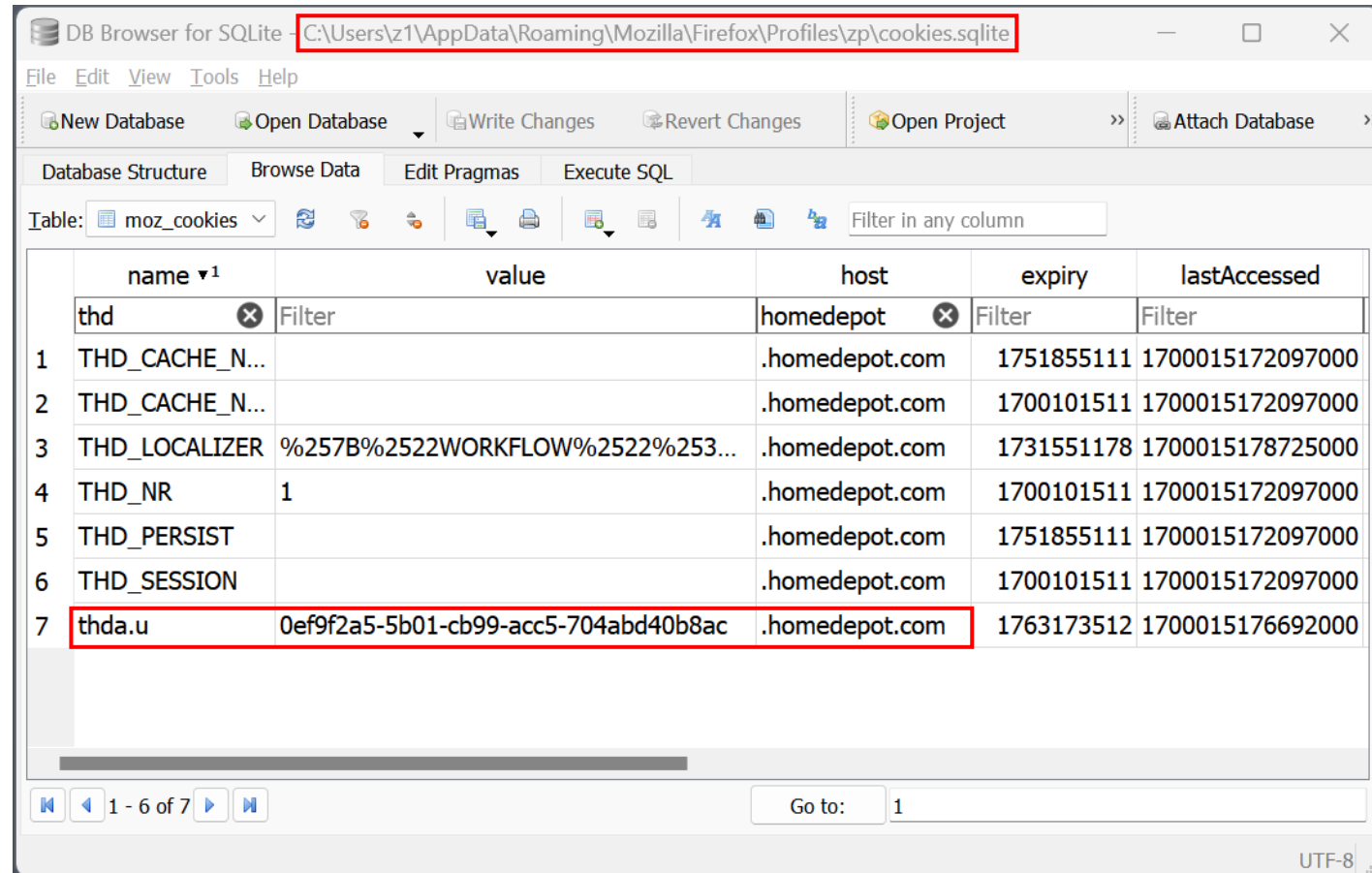
Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The screenshot shows a web browser window with the Home Depot website. The address bar displays 'https://www.homedepot.com'. The page features a black Friday savings banner. The developer tools are open, showing the 'Cookies' tab. The 'thda.u' cookie is highlighted with a red box. The cookie table has the following columns: Name, Value, Domain, Expires / Max-Age, and Last Accessed.

Name	Value	Domain	Expires / Max-Age	Last Accessed
thda.u	0ef9f2a5-5b01-cb99-acc5-7048bd40b8ac	.homedepot.com	Sat, 15 Nov 2025 02:28:00 GMT	Wed, 15 Nov 2023 02:28:00 GMT
thx_guid	5d1be958f853915326b05d073ee31b64	customer.homedepot.com	Thu, 19 Oct 2028 02:28:00 GMT	Wed, 15 Nov 2023 02:28:00 GMT

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The cookie can also be seen by using the browser's debugger tool or by opening the cookies.sqlite database on a client device with a database editor.



DB Browser for SQLite C:\Users\z1\AppData\Roaming\Mozilla\Firefox\Profiles\zp\cookies.sqlite

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes Open Project Attach Database

Database Structure Browse Data Edit Pragmas Execute SQL

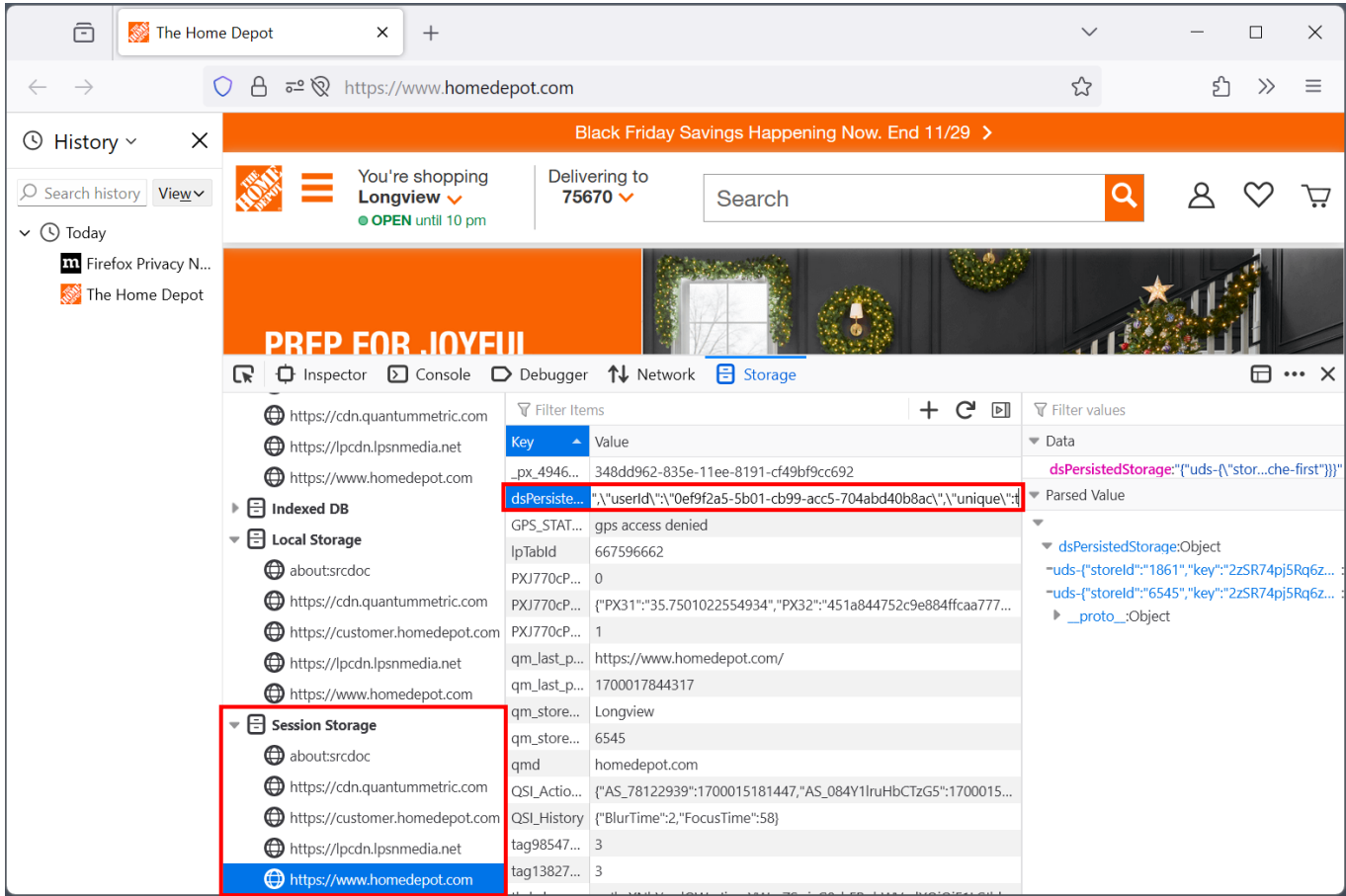
Table: moz_cookies Filter in any column

	name ▼ ¹	value	host	expiry	lastAccessed
	thd	Filter	homedepot	Filter	Filter
1	THD_CACHE_N...		.homedepot.com	1751855111	1700015172097000
2	THD_CACHE_N...		.homedepot.com	1700101511	1700015172097000
3	THD_LOCALIZER	%257B%2522WORKFLOW%2522%253...	.homedepot.com	1731551178	1700015178725000
4	THD_NR	1	.homedepot.com	1700101511	1700015172097000
5	THD_PERSIST		.homedepot.com	1751855111	1700015172097000
6	THD_SESSION		.homedepot.com	1700101511	1700015172097000
7	thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b8ac	.homedepot.com	1763173512	1700015176692000

1 - 6 of 7 Go to: 1 UTF-8

The Accused Instrumentalities also store a “dsPersistedStorage” cookie (JSON data structure) in the client device’s Session Storage, which contains a device ID. As shown in the enlarged screenshot below, the “userId” (“0ef9f2a5...”) is the same as reflected in the thda.u cookie above, which means the dsPersistedStorage cookie is tracking the device ID at this time.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



(Enlarged from above screenshot)

dsPersiste... \"userId\": \"0ef9f2a5-5b01-cb99-acc5-704abd40b8ac\",

During such a first previous network session, a client device will send a request to Home Depot’s servers with a thda.u cookie, but a blank THD_PERSIST cookie (string).

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

History

Search history

Today

Firefox Privacy N...

The Home Depot

Black Friday Savings Happening Now. End 11/29

You're shopping Longview

Delivering to 75670

Search

Black Friday Savings

Inspector

Console

Debugger

Network

Storage

Met...	Domain	File	Initiator	Type	Transferred	Size
GET	www.homedepot.com	/	document	html	100.38 kB	470.52 kB
GET	va.v.liveperson.net	31564604?sid=J	/74 (script)	js	1.17 kB	73 B
POST	collector-pxj770cp7y.px-cl...	beacon	beacon			
POST	swasc.homedepot.com	s954440531916	appMeasure.c...			
POST	ingest.quantummetric.com	homedepot?T=f	quantum-ho...			
POST	ingest.quantummetric.com	homedepot?T=f	quantum-ho...			
POST	6aecaf8b7897496a86485af...	prop.json	script.js:1 (bea...			
POST	6aecaf8b7897496a86485af...	prop.json	script.js:1 (bea...			
POST	ingest.quantummetric.com	homedepot?T=f	quantum-ho...			
POST	ingest.quantummetric.com	homedepot?T=f	quantum-ho...			
POST	ingest.quantummetric.com	homedepot?T=f	quantum-ho...			
POST	ingest.quantummetric.com	homedepot?T=f	quantum-ho...			

414 requests

14.21 MB / 912.35 kB transferred

Finish: 5.05 min

DOMContentLoaded: 833 ms

Headers

Cookies

Request

Response

THD NR: "1"

THD_PERSIST: ""

THD_SESSION: ""

thda.m: "28071782225140056280210898850812205946"

thda.s: "b2982b8c-9591-f7c5-ae40-f1dad8103f11"

thda.u: "0ef9f2a5-5b01-cb99-acc5-704abd40b8ac"

tr: "5127963918660798122"

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	Enlarged from above: THD_PERSIST: "" THD_SESSION: "" thda.m: "280717822251400562802108988508122059 46" thda.s: "b2982b8c-9591-f7c5-ae40-f1dad8103f11" thda.u: "0ef9f2a5-5b01-cb99-acc5-704abd40b8ac" As a second example, such as during a second previous network session, when a user logs in to homedepot.com with a Personal Account, the Accused Instrumentalities cause further cookies to be stored on a client device.
--	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

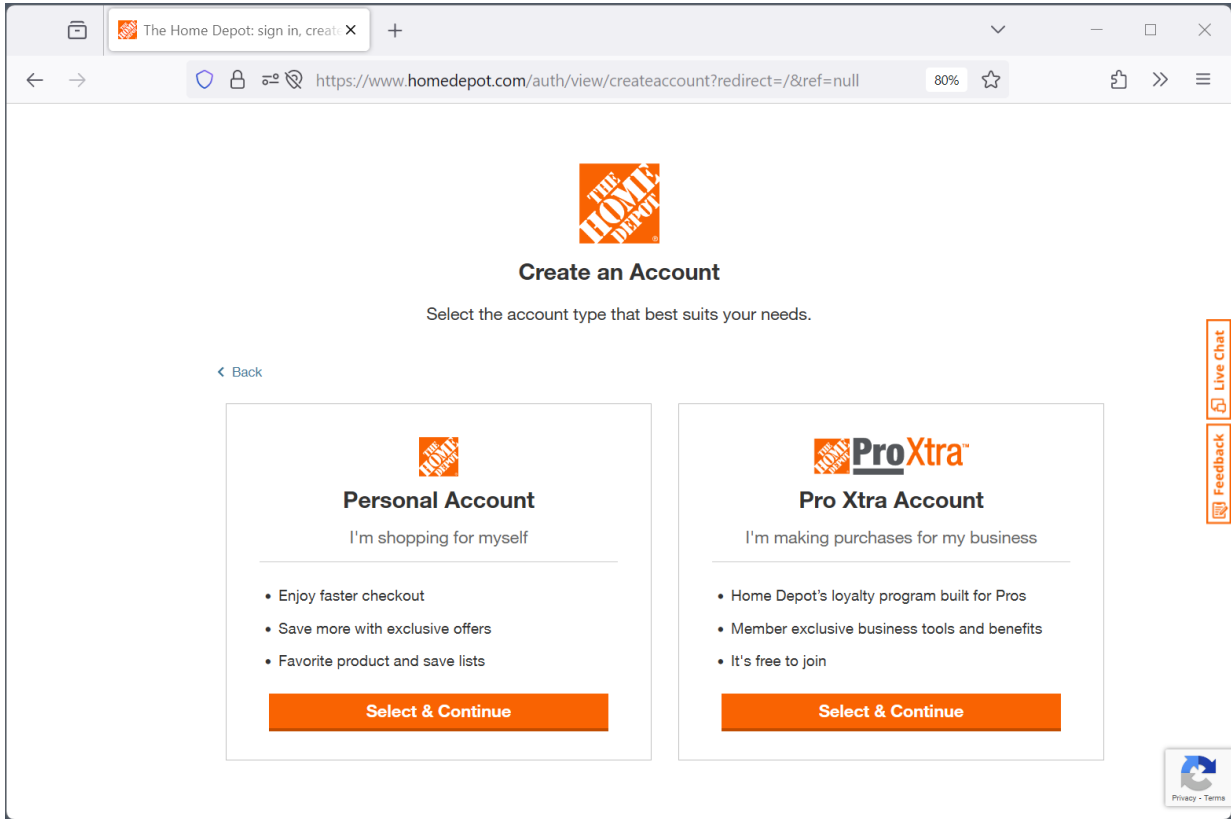


Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

For example, during login, the Accused Instrumentalities will cause both a THD_USER_SESSION cookie (combination of string and base64 encoded JSON string) and THD_USER cookie (base64 encoded JSON string) to be stored on the client device in the cookies storage area.

The screenshot shows the Home Depot website's Sitemap page. The browser's developer tools are open, displaying the 'Storage' tab. The 'Cookies' section is expanded, showing a list of cookies for the domain .homedepot.com. The THD_USER_SESSION and THD_USER cookies are highlighted with a red box.

Name	Value	Domain	Expires / Max-Age	Last Accessed
THD_MCC_TOKEN	eyJhbGciOiJkaXIIlCJlbmMi...	.homedepot.com	Wed, 15 Nov 2023 06:16:16 GMT	Wed, 15 Nov 2023 06:01:16 GMT
THD_NR	1	.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT	Wed, 15 Nov 2023 20:21:23 GMT
THD_PERSIST	C6%3d%7b%221%22%3a...	.homedepot.com	Tue, 08 Jul 2025 06:01:48 GMT	Wed, 15 Nov 2023 20:21:23 GMT
THD_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT	Wed, 15 Nov 2023 20:21:23 GMT
THD_SSUI_LOG_TOKEN	eyJhbGciOiJkaXIIlCJlbmMi...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT	Wed, 15 Nov 2023 03:26:26 GMT
THD_SSUI_TOKEN	eyJhbGciOiJkaXIIlCJlbmMi...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT	Wed, 15 Nov 2023 07:42:29 GMT
THD_TMX_CACHE	nkGEE3Yrx5QLMQE-wScGh...	.homedepot.com	Thu, 16 Nov 2023 03:26:27 GMT	Wed, 15 Nov 2023 20:21:23 GMT
THD_TRANSACT	d1726467-8c02-435f-94b2...	.homedepot.com	Session	Wed, 15 Nov 2023 20:21:23 GMT
THD_USER_SESSION	eyJzljoiMDQyN0VfQ0RERE...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT	Wed, 15 Nov 2023 20:21:23 GMT
THD_USER	eyJjdXN0b21ldR5cGUlOiJC...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT	Wed, 15 Nov 2023 20:21:23 GMT
thda.m	2807178222514005628021...	.homedepot.com	Session	Wed, 15 Nov 2023 20:21:23 GMT
thda.s	b2982b8c-9591-f7c5-ae40-...	.homedepot.com	Session	Wed, 15 Nov 2023 20:21:23 GMT
thda.u	0ef9f2a5-5b01-cb99-acc5-...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT	Wed, 15 Nov 2023 20:21:23 GMT

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

A cropped and enlarged version of these cookies is shown here.

THD_USER_SESSION	eyJzIjoiMDQyN0VFQ0RERE...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
THD_USER	eyJjdXN0b21ldlR5cGUiOiJC...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
thda.m	2807178222514005628021...	.homedepot.com	Session
thda.s	b2982b8c-9591-f7c5-ae40-...	.homedepot.com	Session
thda.u	0ef9f2a5-5b01-cb99-acc5-...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT

The THD_USER_SESSION value includes data that is encoded in base 64. Decoding it provides the following result, showing that the THD_USER_SESSION contains a user ID.

```
{
  "s": "0427EECDDDF1CD740U:11eb45ac-ae7-4f9d-b97c-933761f31e7b",
  "u": "0427EECDDDF1CD740U",
  "i": "3wZWXxWhPx6P9iz0s0DBfFX3AIs.*AAJTSQACMDIAAINLABxVN0JNbHizYy9OZGxhQjFDQnRTUE95S0V5dTA9AAR0eXBIAANDVFMAAIMxAAIwMQ..*",
  "c": "B2C",
  "t": "0427EECDDDEFCD740S",
  "v": "1700018787584",
  "k": "y"
}
```

The THD_USER value is also encoded in base 64. Decoding it provides the following result, showing that the THD_USER includes the customer's svocCustomerId, loginId, and userId.

```
{
  "customerType": "B2C",
  "svocCustomerId": "0427EECDDDEFCD740S",
  "loginId": "z_user1@b.org",
  "userId": "0427EECDDDF1CD740U"
}
```

The Accused Instrumentalities will also populate the THD_PERSIST cookie during login, unlike when the user was visiting homedepot.com without logging in. When logging in, the client device will send the THD_PERSIST cookie with data including information from the C12 cookie (JSON data structure) (such as the user's email address, which may be used as a user ID) to Home Depot servers.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The screenshot displays a web browser window with the Home Depot website. The address bar shows the URL https://www.homedepot.com/c/site_map. The page header features a black banner with the text "Black Friday Savings Happening Now. End 11/29". Below this, the navigation bar includes the Home Depot logo, "You're shopping Longview", "Delivering to 75670", and a search bar. The main navigation bar lists various categories: "All Departments", "Home Decor, Furniture & Kitchenware", "DIY Projects & Ideas", "Project Calculators", "Installation & Services", "Specials & Offers", and "Local Ad & Catalog". The page content shows "Sitemap - The Home Depot" with a list of categories: "About Home Depot", "Electrical", "Home Projects & Ideas", "Playground Sets & Equipment", and "Home Décor". The network inspector is open, showing a list of requests. The selected request is a GET request to "www.homedepot.com/site_map" with a status of 200 and a size of 480.15 kB. The response is visible in the right pane, showing a JSON object with various fields including "THD_NR", "THD_PERSIST", "THD_SESSION", and "THD_TMX_CACHE".

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	Enlarged from above: THD_PERSIST: "C12=z_user1@b.org; C12_EXP=1731554787;;C13=self; C13_EXP=1731554787" THD_SESSION: "" The C12 cookie information is stored in Local Storage on a customer device after a user has logged in. Also shown below is the User ID key ("0427EE...") (JSON data structure) stored in Local Storage.
--	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

SiteMap - The Home Depot

https://www.homedepot.com/c/site_map

80%

Black Friday Savings Happening Now. End 11/29

You're shopping

Longview

OPEN until 10 pm

Delivering to

75670

What can we help you find today?

My Account

Lists

Cart | 0 items

All Departments

Home Decor, Furniture & Kitchenware

DIY Projects & Ideas

Project Calculators

Installation & Services

Specials & Offers

Local Ad & Catalog

Home / Sitemap

Sitemap - The Home Depot

About Home Depot

Electrical

Home Projects & Ideas

Playground Sets & Equipment

Home Décor

Cookies

Indexed DB

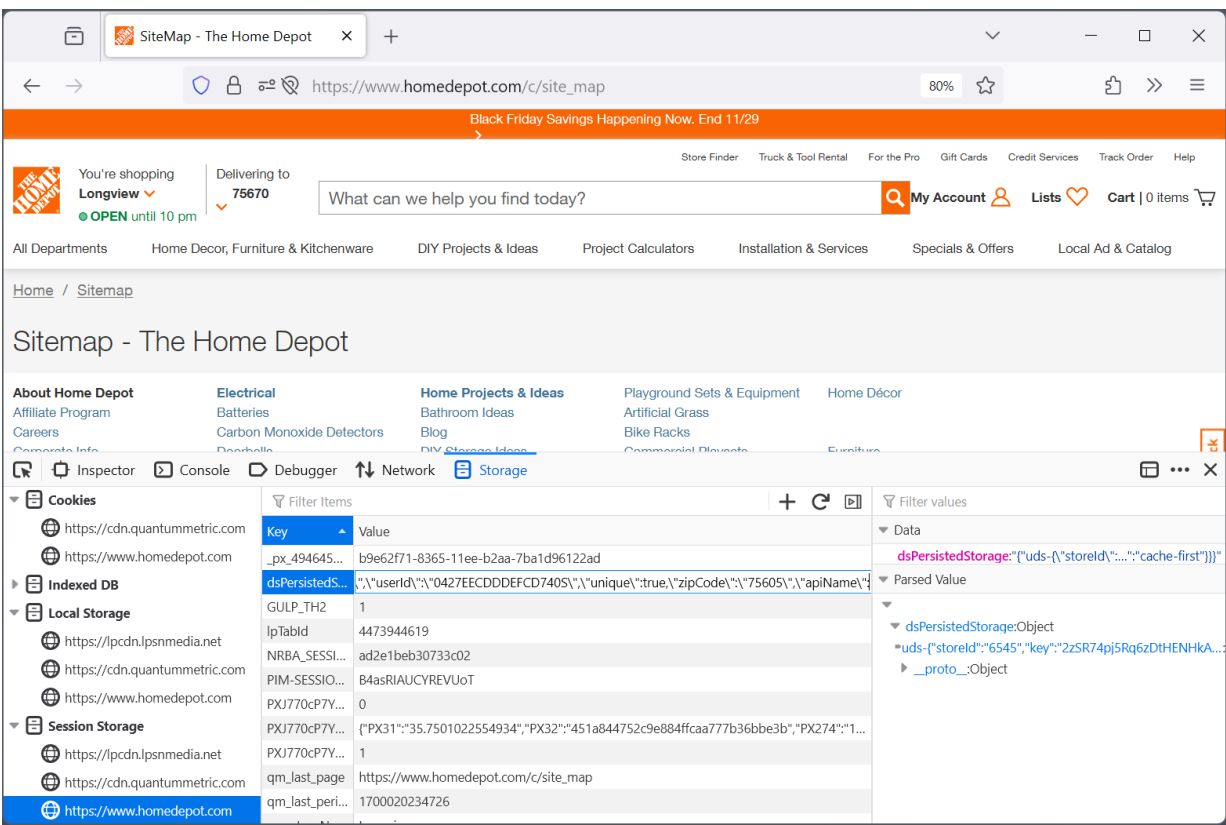
Local Storage

Session Storage

Key	Value
0427EECDDDF1CD740U	({"numberOfServiceAccounts":0,"timestamp":1700025994177})
_meta_enrichmentService_user_failure	({"value":"not found","expires":"2023-11-16T03:26:35.775Z"})
BTT_Collect	({"value":"on","expires":"1700021754180"})
BTT_GUID_PV	({"GUID":"531626447404975825","cartValDOY":"318","cartVal":"0"})
BTT_WCD_Collect	({"value":"off","expires":"1700021754180"})
BTT_X0siD	({"value":"345589163605768860","expires":"1700021754180"})
C12	({"value":"z_user1%40b.org","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"})
C13	({"value":"self","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"})
deviceInfo1	({"cpuCores":16,"deviceClassification":2,"webgl2Supported":true})
NRBA_SESSION	({"value":"9a3b89abad8b3869","inactiveAt":1700021751767,"expiresAt":1700029513135,"updatedAt":1700019951935,"ses...
PXJ770cP7Y_px_fp	({"PX31":"35.7501022554934","PX32":"451a844752c9e884ffcaa777b36bbe3b","PX274":"17b9e238678e960ac4cb6fc58bd2...

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

In Session Storage, the Accused Instrumentalities will also cause the dsPersistedStorage cookie to be updated.



The dsPersistedStorage cookie is updated to show value “0427EE...”, which is the value of the user ID shown above in, for example, THD_USER and THD_USER_SESSION, instead of the previous value dsPersistedStorage contained, which pertained to the device ID.

Key	Value
_px_494645...	b9e62f71-8365-11ee-b2aa-7ba1d96122ad
dsPersistedS...	\"\\\"userId\\\": \"0427EECDDEFC7405\\\", \"unique\\\": true, \"zipCode\\\": \"75605\\\", \"apiName\\\": \"THD_USER_SESSION\"}
GULP_TH2	1

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	As a third example, during a second previous network session, when a user logs in to homedepot.com with a Pro Account, the Accused Instrumentalities cause different cookies to be stored on a client device. For example, the Accused Instrumentalities continue to cause the THD_PERSIST cookie (in Cookie storage), and C12 (in Local Device storage), to be stored on the client device during login, as described in the second example. The Accused Instrumentalities additionally cause a THD_CUSTOMER cookie (base64 encoded JSON string) to be stored in the Cookies storage area and C13, b2b-hf-dynamic-phone-number, customerConfiguration, QM, and thd-membershipinformation cookies (all JSON data structures) to be stored in the Local Storage area on the client device.
--	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

For example, the THD_CUSTOMER, thda.u, and THD_PERSIST cookies are shown in the Cookie storage area below:

SiteMap - The Home Depot

https://www.homedepot.com/c/site_map

80%

Explore Features | Need Help? | Call 1-800-525-5000 or Text 78465

Pro

You're shopping Longview

Delivering to 75670

Search by product, manufacturer part, or SKU number...

Hello, Z Customer

Cart

All Products

Specials & Offers

Credit Services

Rental

Services

Special Order

Resource Center

Lists

Buy It Again

Quotes

Quick Add

Black Friday Savings All Month Long — Shop Now >

Home / Sitemap

Sitemap - The Home Depot

Inspector

Console

Debugger

Network

Storage

Cache Storage

Cookies

Indexed DB

Local Storage

Session Storage

thd

Name	Value	Domain	Expires / Max-Age	Last Accessed
THD_CUSTOMER	eyJzljoiMDUyN0YwQzZGRUFDNjMxRDBVOMlyMDNjMWM2LTExY2UtNDJ...	.homedepot...	Thu, 14 Nov 2024 2...	Wed, 15 Nov 2023 2...
THD_LOCALIZER	%257B%2522WORKFLOW%2522%253A%2522LOCALIZED_BY_STORE%25...	.homedepot...	Thu, 14 Nov 2024 2...	Wed, 15 Nov 2023 2...
THD_MCC_ID	2e6bfd13-bfcd-4b90-bd66-1ce02da2a335	.homedepot...	Session	Wed, 15 Nov 2023 2...
THD_MCC_TOKEN	eyJhbGciOiJkaXIlLCJlbmMiOiJBMjU2R0NNIn0.7klJfs2m0bpd3R7xg0i5pQ...	.homedepot...	Wed, 15 Nov 2023 0...	Wed, 15 Nov 2023 0...
THD_NR	1	.homedepot...	Thu, 16 Nov 2023 0...	Wed, 15 Nov 2023 2...
THD_PERSIST	%3D%3A%3BC12%3Dz_customer1%40b.org%3A%3BC12_EXP%3D17316...	.homedepot...	Thu, 14 Nov 2024 2...	Wed, 15 Nov 2023 2...
THD_SESSION		.homedepot...	Thu, 16 Nov 2023 0...	Wed, 15 Nov 2023 2...
THD_SSUI_LOG_TOKEN	eyJhbGciOiJkaXIlLCJlbmMiOiJBMjU2R0NNIn0.ZKNeCieg3vMA0sdl-Trriw.2...	.homedepot...	Thu, 16 Nov 2023 0...	Wed, 15 Nov 2023 2...
THD_SSUI_TOKEN	eyJhbGciOiJkaXIlLCJlbmMiOiJBMjU2R0NNIn0.ZKNeCieg3vMA0sdl-Trriw.2...	.homedepot...	Thu, 16 Nov 2023 0...	Wed, 15 Nov 2023 2...
THD_TMX_CACHE	zwC3GpjRhJV8nKJhTnyrV74rWwUennaPAfey8Wm1Ulw5XMA6buhOVaHy0...	.homedepot...	Thu, 16 Nov 2023 2...	Wed, 15 Nov 2023 2...
THD_TRANSACTION	81550e92-85a0-4ccc-90ab-9d6358db8555	.homedepot...	Session	Wed, 15 Nov 2023 2...
thda.m	28071782225140056280210898850812205946	.homedepot...	Session	Wed, 15 Nov 2023 2...
thda.s	b2982b8c-9591-f7c5-ae40-f1dad8103f11	.homedepot...	Session	Wed, 15 Nov 2023 2...
thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b8ac	.homedepot...	Sat, 15 Nov 2025 02...	Wed, 15 Nov 2023 2...

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

An expanded view of the THD_PERSIST cookie is shown below, showing C12 and C13 user identifying information:

The screenshot shows a web browser window with the Home Depot Pro account overview page. The Network tab is open, showing a list of requests. The first request is a GET request to `www.homedepot.com/overview_pro_onboard` with a status of 200. The response is an HTML document. The expanded view of the THD_PERSIST cookie is shown in the Cookies tab, with the following details:

Method	Domain	File	Initiator	Type	Transferred	Size
GET	www.homedepot.com	overview_pro_onboard	document	html	63.42 kB	270.84 kB
GET	assets.thdstatic.com	global-shell.d950bcf9	script	js	cached	0 B
GET	assets.thdstatic.com	sync.js	script	js	cached	0 B
GET	assets.thdstatic.com	localizerAutolnit.amd	script	js	cached	0 B
GET	assets.thdstatic.com	react.production.min	script	js	cached	0 B
GET	assets.thdstatic.com	react-dom.production	script	js	cached	0 B
GET	assets.thdstatic.com	core.js	script	js	cached	0 B
GET	assets.thdstatic.com	thd-customer.js	script	js	cached	0 B
GET	assets.thdstatic.com	cookie-utils.min.js	script	js	cached	0 B
GET	assets.thdstatic.com	global.digitalData.js	script	js	cached	0 B
GET	assets.thdstatic.com	jquery.min.js	script	js	cached	0 B

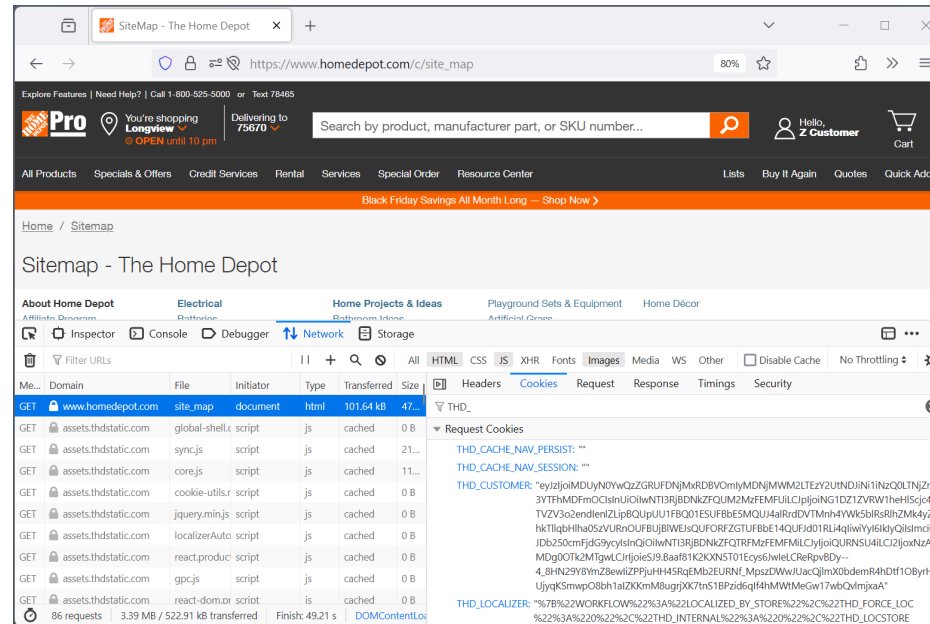
Summary: 170 requests, 1.63 MB / 305.60 kB transferred, Finish: 7.81 min, DOMContentLoaded: 385 ms, load: 551 ms

Expanded view of the THD_PERSIST cookie:

```
THD_PERSIST: 'C6={"11":"","0"};C6_EXP=1702679117;C12=z_customer1@b.org;C12_EXP=1751927117;C13=ZCUSTOMER:C13_EXP=1751927117'
```

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The THD_CUSTOMER cookie is encoded in base64.



Decoding it gives the following result, showing a Pro user ID (“u”:“0527f...”):

```
{
  "s": "0527F0C6FEAC631D0U:b203c1c6-13ce-42b6-b744-3cff7a1a01f8",
  "u": "0527F0C6FEAC631D0U",
  "i": "4mCgVUEmaxyRr78e5YWz6zwHzY.*AAJTSQACMDIAAINLABxjTkt5S2xxai9nTIFXY2N2eHdNYjlyakNsUDg9AAR0eXBIAANDVFMAAI MxAAIwMQ..*",
  "c": "B2B",
  "g": "Contractors",
  "t": "0527F0C6FEA4E31D0S",
  "r": "ADMIN",
  "v": 1700084996180,
  "k": "y"
}
```

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The C12, C13, b2b-h-dynamic-phone-number, and customerConfiguration cookies in the Local Storage area are shown below:

The screenshot shows the Home Depot website's Sitemap page. The browser's Storage Inspector is open, displaying the Local Storage area. The Local Storage area is highlighted with a red box, showing the following cookies:

Key	Value
C12	{value:"z_customer1%40b.org",expiry:"Thu, 14 Nov 2024 21:49:56 GMT"}
C13	{value:"Z%20CUSTOMER",expiry:"Thu, 14 Nov 2024 21:49:56 GMT"}
b2b-hf-dynamic-phone-num...	{phoneNumber:"1-800-525-5000",shortCode:"78465",expiration:"2023-11-16T21:50:09.535Z",svocld:"0527F0C6FEA4E31D05"}
customerConfiguration	{callCenterType:"ProOcc",chatEnabled:false,eliteCallCenterNumber:"1-866-333-3551",eliteCallCenterSMSCode:"78465",expira...

Filtering the results in the same screen by the Pro user ID “052F0C6,” the b2b-hf-dynamic-phone-number, customerConfiguration, QM, and thd-membershipinformation cookies in the Local Storage area are shown below, showing they all contain references to the identified user ID:

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

SiteMap - The Home Depot

https://www.homedepot.com/c/site_map

80%

Explore Features | Need Help? | Call 1-800-525-5000 or Text 78465

Pro

You're shopping Longview

OPEN until 10 pm

Delivering to 75670

Search by product, manufacturer part, or SKU number...

Hello, Z Customer

Cart

All Products

Specials & Offers

Credit Services

Rental

Services

Special Order

Resource Center

Lists

Buy It Again

Quotes

Quick Add

Black Friday Savings All Month Long — Shop Now >

Home / Sitemap

Sitemap - The Home Depot

About Home Depot

Electrical

Home Projects & Ideas

Playground Sets & Equipment

Home Décor

Inspector

Console

Debugger

Network

Storage

Cache Storage

Cookies

Indexed DB

Local Storage

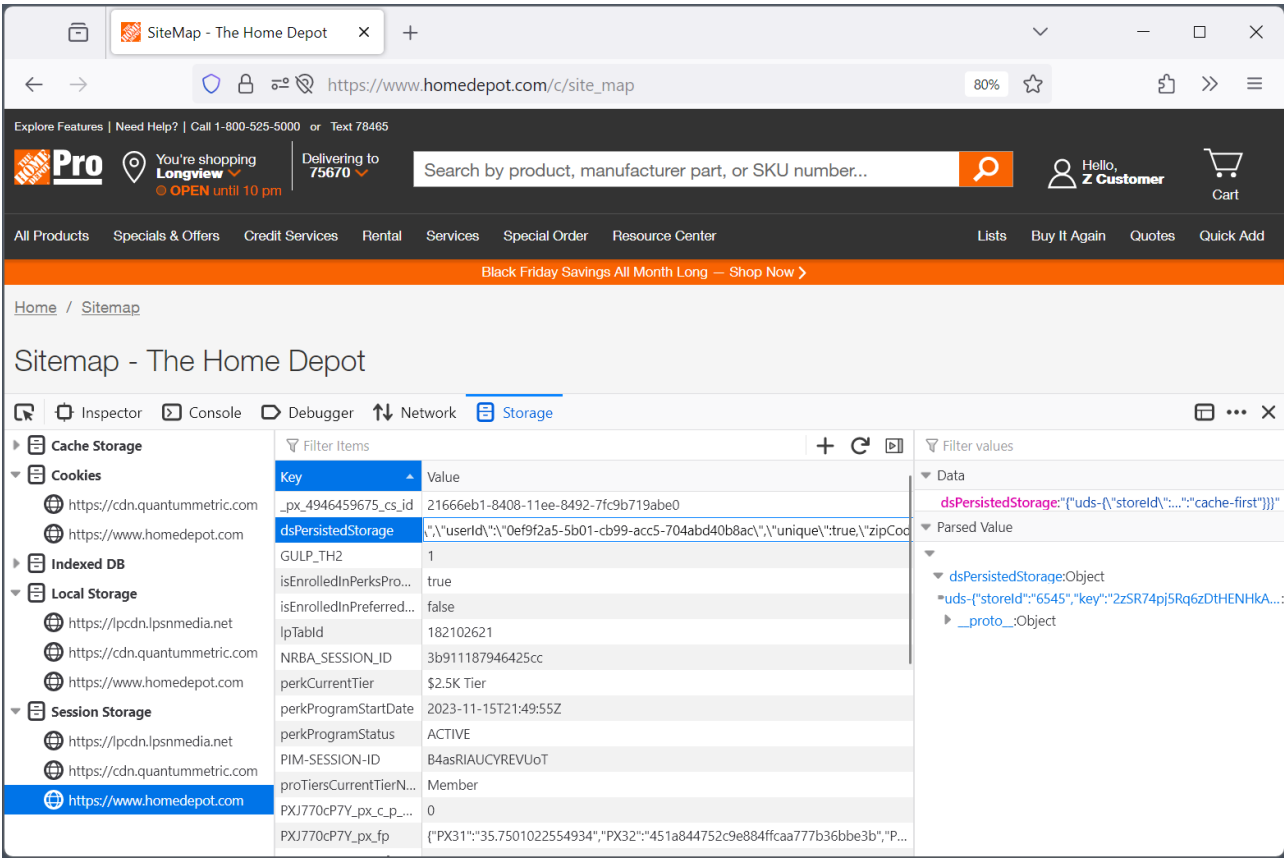
Session Storage

0527F0C6

Key	Value
b2b-hf-dynamic-phone-num...	({"phoneNumber":"1-800-525-5000","shortCode":"78465","expiration":"2023-11-16T21:50:09.535Z","svocId":"0527F0C6FEA4E31D05"})
customerConfiguration	({"callCenterType":"ProOcc","chatEnabled":false,"eliteCallCenterNumber":"1-866-333-3551","eliteCallCenterSMSCode":"78465","expira...
QM	({"shouldLogResources":false,"s":"ca6fd6c3a3655f8b564f03af1e247b9c","events":[{"i":817,"v":"","t":"1700084763838}},{"i":-25,"v":"Cookie...
thd-membershipInformation	({"svocID":"0527F0C6FEA4E31D05","programTiers":[],"expireTime":1700128209617})

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The Accused Instrumentalities also cause cookies to be stored in session storage (dsPersistedStorage).



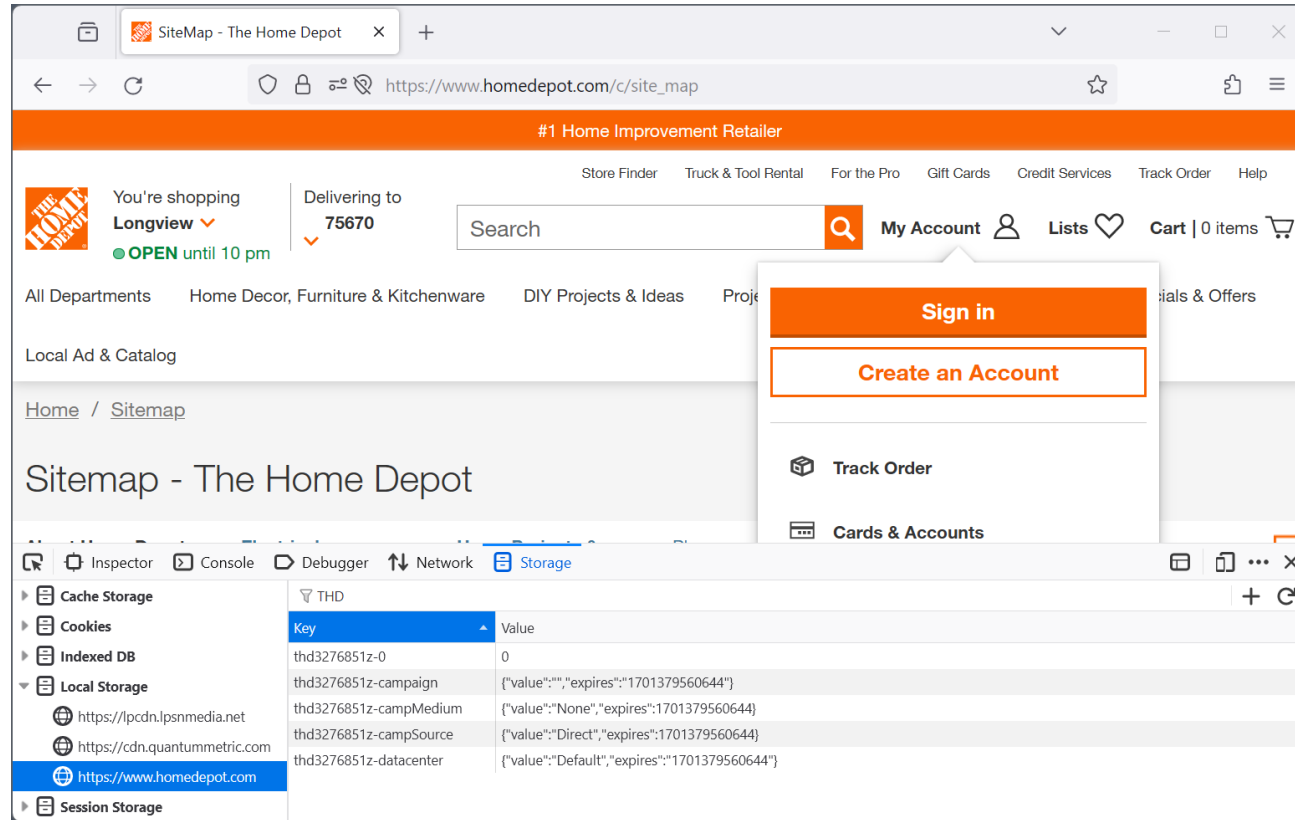
The dsPersistedStorage shows a value of “0ef9f2a5...”, showing that it contains the device ID in its userId field, rather than the Pro user ID “052F0C6...” as seen in the Local Storage cookies above. (Enlarged from above):

dsPersistedStorage: {"userId":"0ef9f2a5-5b01-cb99-acc5-704abd40b8ac","un

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

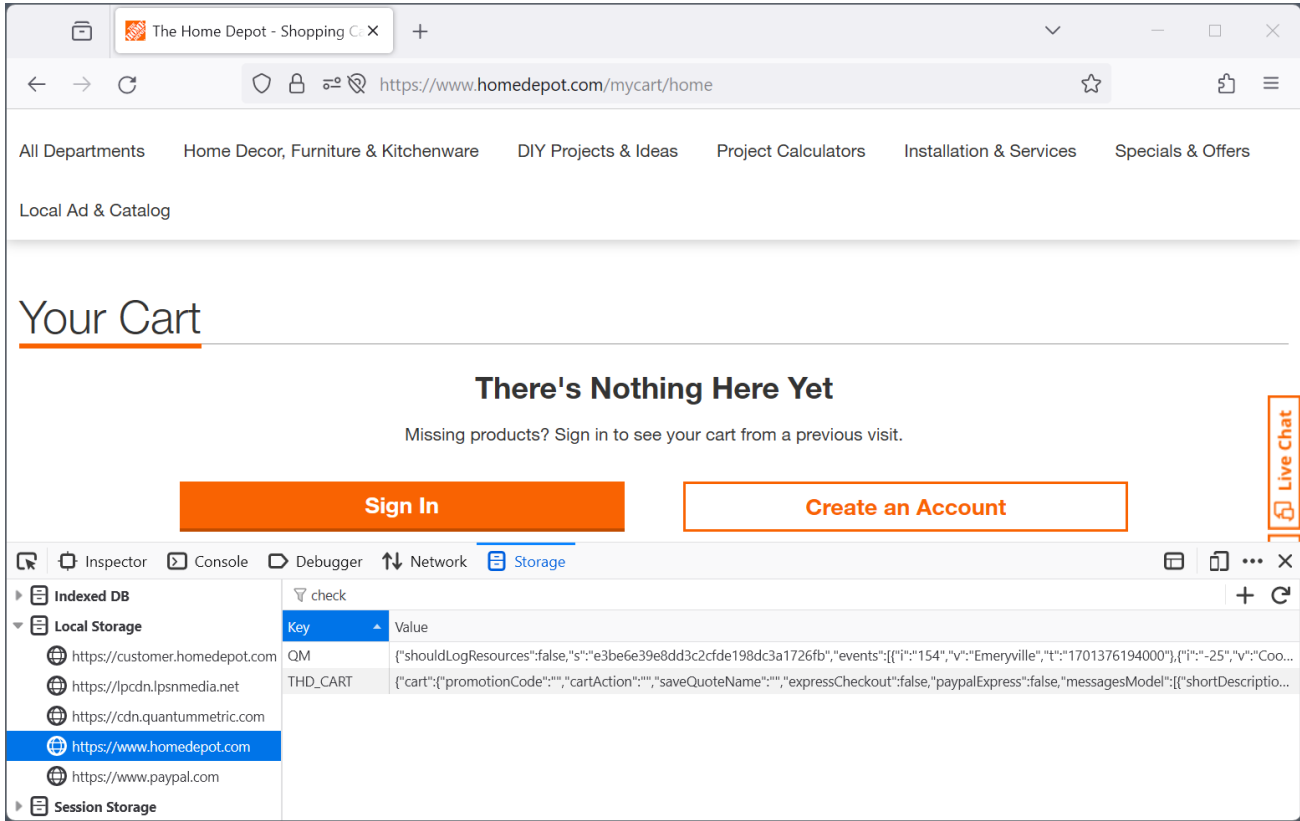
	The Accused Instrumentalities may also cause additional cookies to be stored on a client device. For example, the Accused Instrumentalities may cause cookies such as “QM” and “gpc” cookies (JSON data structures) to be stored in Local Storage after a user logs in, and may store the same user ID value that is stored in the THD_USER or THD_CUSTOMER cookie. As a fourth example, when a user clicks on the cart icon, the Accused Instrumentalities cause a THD_CART cookie (JSON data structure) to be stored in Local Storage. If the cart contains an item, or if a user adds an item to the cart, the Accused Instrumentalities also cause a checkoutPromptsDisplayInfo cookie (JSON data structure) to be stored in Local Storage. If the user is logged in, THD_CART and checkoutPromptsDisplayInfo will store the same user ID value that is stored in the THD_USER (Personal Account) or THD_CUSTOMER (Pro Account) cookie. For example, a non-logged-in user viewing the homedepot.com site without visiting the user’s cart shows that no THD_CART cookie exists.
--	--

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



Once the user visits their cart, the Accused Instrumentalities cause a THD_CART cookie to be saved on the client device, even without any items in the cart.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



After logging in, the THD_CART cookie is overwritten to add the user ID (0427EE...)

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

[illegible]

Expanded:

THD_CART	{"cart":{"promotionCode":"","cartAction":"","saveQuoteName":"","userId":"0427EECDDDEFCD740S",
----------	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The user may add an item to their cart – here, a lightbulb, by selecting “move to cart” option.

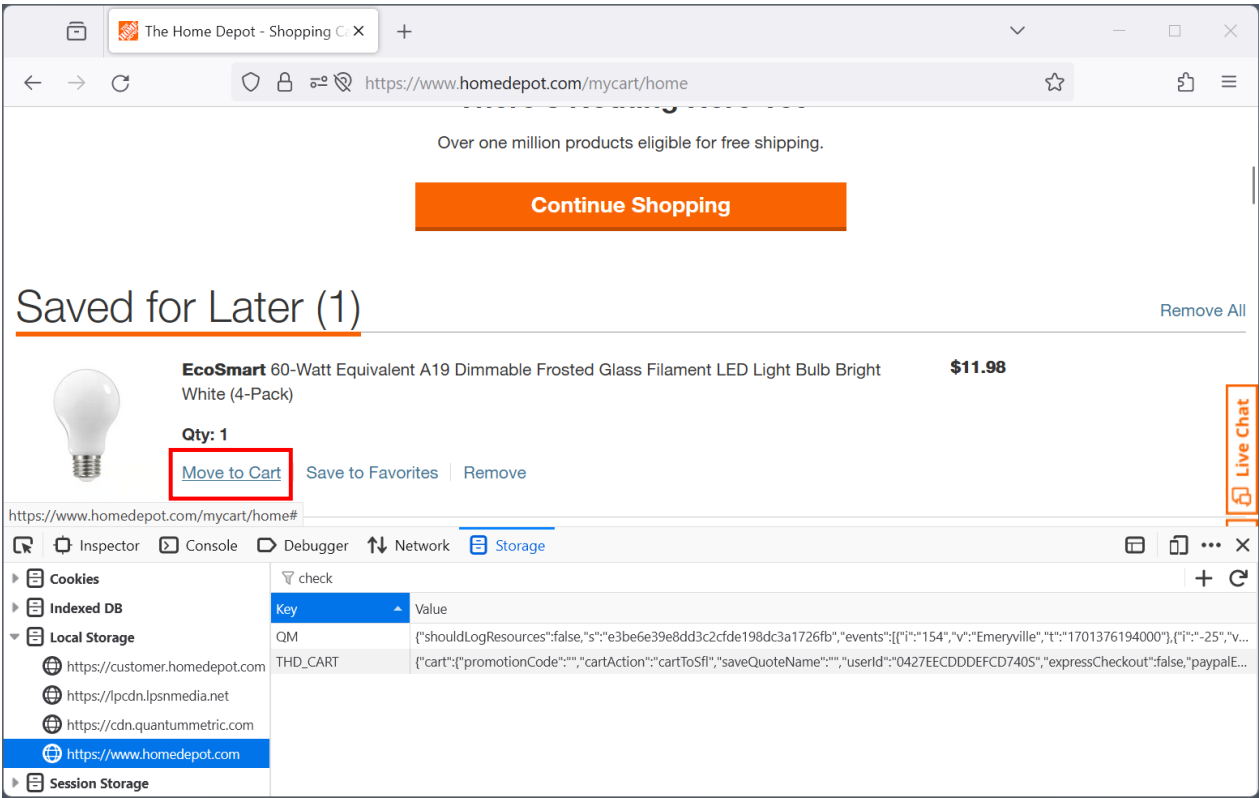


Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

After adding a lightbulb to a user's cart, the THD_CART cookie is updated and other cookies are also created, such as the checkoutPromptsDisplayInfo cookie, which also contains the user ID value that is also present in THD_USER.

The screenshot displays a web browser window with the Home Depot shopping cart and order summary. The cart contains one item: EcoSmart 60-Watt Equivalent A19 Dimmable Frosted Glass Filament LED bulb for \$11.98. The order summary shows a subtotal of \$11.98, free delivery, and a total of \$11.98. The browser's developer tools are open, showing the Local Storage tab with a list of cookies and their values.

Your Cart (1)

[Remove All Items](#)

Delivery
75670 (1 item)

Your Delivery Cost: FREE

Share

Your Order

Subtotal \$11.98
Delivery FREE
Sales Tax (determined in later step) ---

Total \$11.98

[Have a promo code?](#)

EcoSmart 60-Watt Equivalent A19 Dimmable Frosted Glass Filament LED \$11.98

* Delivery fees are calculated at the lowest rate available.

Developer Tools - Local Storage

Key	Value
0427EECD740U	{ "numberOfServiceAccounts": 0, "timestamp": 1701384356661 }
checkoutPromptsDisplayInfo	{ "orderId": "HD100066957768", "cartTotal": "\$11.98", "cartCount": "1", "image": "https://images.thdstatic.com/productImages/554a3f25-6-0M" }
THD_CART	{ "cart": { "promotionCode": "", "cartAction": "sfiToCart", "saveQuoteName": "", "userId": "0427EECDDEFC740S", "orderId": "HD100066957768" } }

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Expanded:

Key	Value
0427EECDDDF1CD740U	{\"numberOfServiceAccounts\":0,\"timestamp\":1701384356661}
checkoutPromptsDisplayInfo	{\"orderId\":\"HD100066957768\",\"cartTotal\":\"\$11.98\",\"cartCount\":\"1\",\"image\":\"https://images.thdstatic.com/productImages/554a3f25-6...
QM	{\"shouldLogResources\":false,\"s\":\"e3be6e39e8dd3c2cfde198dc3a1726fb\",\"events\":{\"i\":\"154\",\"v\":\"Emeryville\",\"t\":\"1701376194000\"},{\"i\":\"...
THD_CART	{\"cart\":{\"promotionCode\":\"\",\"cartAction\":\"sflToCart\",\"saveQuoteName\":\"\",\"userId\":\"0427EECDDDEFCD740S\",\"orderId\":\"HD100066957...

The Home Depot - Shopping

https://www.homedepot.com/mycart/home

Your Cart (1)

Remove All Items

Delivery

75670 (1 item)

Your Delivery Cost: FREE

EcoSmart 60-Watt Equivalent A19 Dimmable Frosted Glass Filament LED

\$11.98

Your Order

Subtotal

\$11.98

Delivery

FREE

Sales Tax (determined in later step)

Total

\$11.98

Have a promo code?

Live Chat

Inspector Console Debugger Network Storage

Local Storage

https://www.google.com

https://www.homedepot.com

https://customer.homedepot.com

https://cdn.quantummetric.com

https://lpcdn.lpsnmedia.net

https://www.sandbox.paypal.com

Session Storage

0427ee

Key	Value
0427EECDDDF1C...	{\"numberOfServiceAccounts\":0,\"timestamp\":1701414809306}
checkoutPrompts...	{\"orderId\":\"HD100066957768\",\"cartTotal\":\"\$11.98\",\"cartCount\":\"1\",\"image\":\"htt...
QM	{\"shouldLogResources\":false,\"s\":\"34e6714e0361f20752bc9128003d0fb0\",\"event...
THD_CART	{\"cart\":{\"promotionCode\":\"\",\"cartAction\":\"sflToCart\",\"saveQuoteName\":\"\",\"userId\"...

Filter values

checkoutPromptsDisplayInfo:Object

orderId:HD100066957768

cartTotal:\$11.98

cartCount:1

image:https://images.thdst...960wesd02-64_400.jpg

customerId:0427EECDDDEFCD740S

userId:0427EECDDDF1CD740U

__proto__:Object

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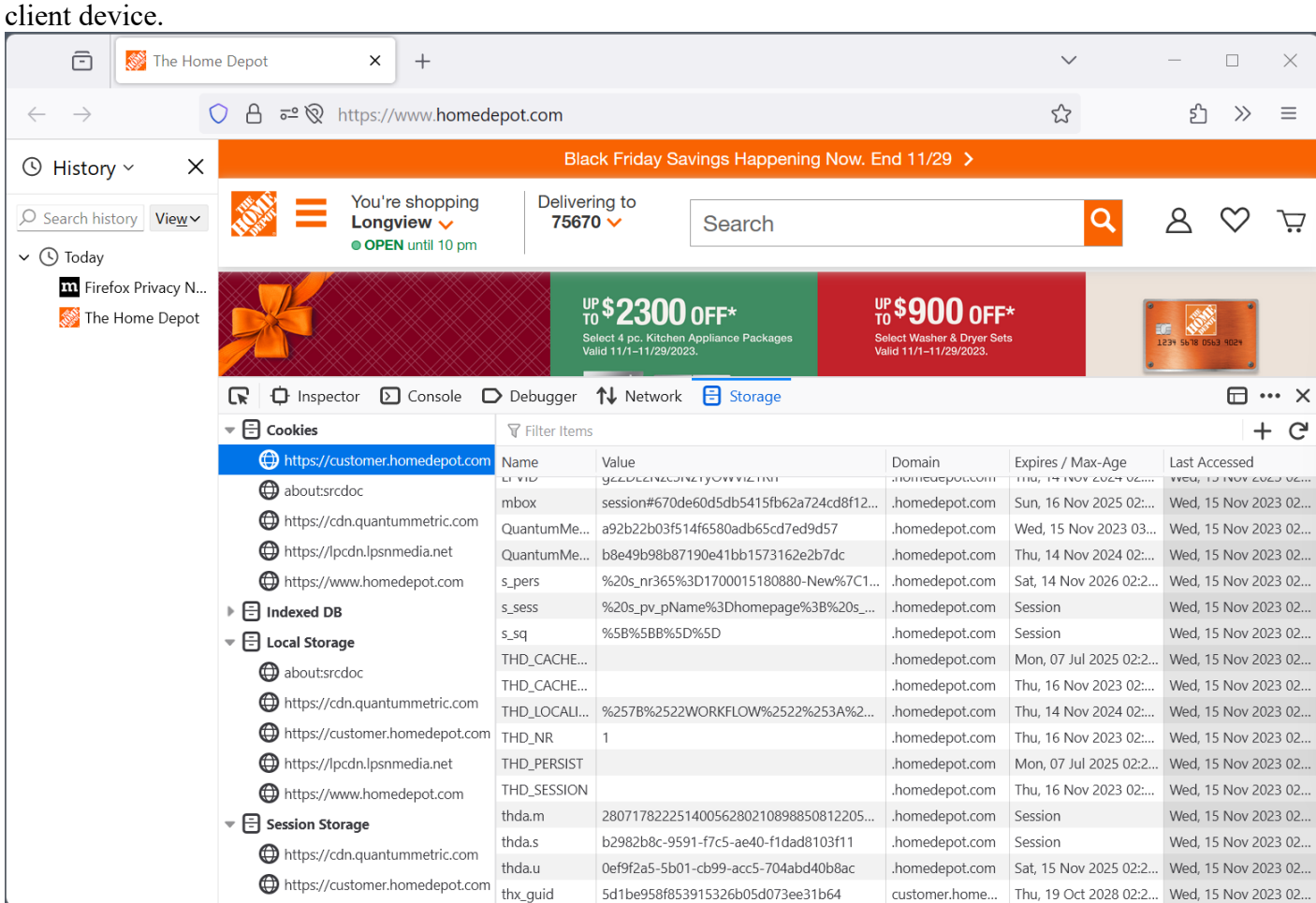
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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	The THD_CART cookie is a JSON data structure holding shopping cart related information, which is different from the THD_USER cookie's base64 encoded string. When the user is logged in, the THD_CART cookie and the checkoutPromptsDisplayInfo also contains the same user ID seen in the decoded THD_USER cookie ("0427EE...") The first cookie of the first type is stored in a first client device browser storage area and the second cookie of the second type is stored in a second client device browser storage area different from the first client device browser storage area. For example, as described above, the THD_USER is a different type of cookie than the THD_CART cookie since at least THD_USER is base64 encoded string and THD_CART is a JSON data structure. THD_USER is also stored in the cookies area of the client device, whereas THD_CART is stored in local storage. An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.
6[b]. based at least in part on the network resource request from the client device corresponding to the first cookie of the first type caused to be stored at the client device during the first previous network session,	Home Depot, based at least in part on the network resource request from the client device corresponding to the first cookie of the first type caused to be stored at the client device during the first previous network session, determines information that was encoded and stored in the client device. As described for element 6[a], any of the cookies in any of the three browser storage areas can be a first cookie of the first type stored at the client device during the first previous network session. As one example, based at least in part on the network resource request from the client device corresponding to any of the cookies stored in the Cookie Storage area ("thda.u," "THD_USER," "THD_USER_SESSION," "THD_PERSIST," "THD_CUSTOMER,"), the Accused Instrumentalities' one or more processors determine information that was encoded and stored in the client device during a previous network session, such as whether a user has previously visited the site. As a first example, based at least in part on the network resource request from the client device corresponding to any of the cookies stored in the Cookie Storage area ("thda.u," "THD_USER," "THD_USER_SESSION," "THD_PERSIST," "THD_CUSTOMER,"), Home Depot determines information that was encoded and stored in the client device, such as a user ID or device ID. For example, as shown in element 6[a], a network resource request from the client causes Home Depot servers to determine information (such as a device ID ("0ef9f2a5...")) that was encoded and stored in the thda.u cookie in the

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

determining information that was encoded and stored in the client device; and



The screenshot shows a web browser window with the Home Depot website. The browser's developer tools are open, displaying the 'Cookies' tab. The cookies list includes:

Name	Value	Domain	Expires / Max-Age	Last Accessed
THD_SESSION	28071782225140056280210898850812205...	.homedepot.com	Session	Wed, 15 Nov 2023 02:...
THD_USER_SESSION	5d1be958f853915326b05d073ee31b64	customer.home...	Thu, 19 Oct 2028 02:2...	Wed, 15 Nov 2023 02:...

For example, as shown in element 6[a], a network resource request from the client causes Home Depot servers to determine information (such as a user ID) that was encoded and stored in the THD_USER_SESSION cookie in the client device.

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THD_USER_SESSION	eyJzljoiMDQyN0VFQ0RERE...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
THD_USER	eyJjdXN0b21ldR5cGUiOiJC...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
thda.m	2807178222514005628021...	.homedepot.com	Session
thda.s	b2982b8c-9591-f7c5-ae40-...	.homedepot.com	Session
thda.u	0ef9f2a5-5b01-cb99-acc5-...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT

The THD_USER_SESSION value includes data that is encoded in base 64. Decoding it provides the following result, showing that the THD_USER_SESSION cookie includes a user ID.

```
{
  "s": "0427EECDDDF1CD740U:11eb45ac-ae7-4f9d-b97c-933761f31e7b",
  "u": "0427EECDDDF1CD740U",
  "i": "3wZWXxWhPx6P9iz0s0DBfFX3AIs.*AAJTSQACMDIAAINLABxVN0JNbHizYy9OZGxhQjFDQnRTUE95S0V5dTA9AAR0eXBIAANDVFMAAIMxAAlwMQ..*",
  "c": "B2C",
  "t": "0427EECDDDEFCD740S",
  "v": "1700018787584",
  "k": "y"
}
```

For example, as shown in element 1[a], a network resource request from the client causes Home Depot servers to determine information (such as a user ID) that was encoded and stored in the THD_USER cookie in the client device.

THD_USER_SESSION	eyJzljoiMDQyN0VFQ0RERE...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
THD_USER	eyJjdXN0b21ldR5cGUiOiJC...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
thda.m	2807178222514005628021...	.homedepot.com	Session
thda.s	b2982b8c-9591-f7c5-ae40-...	.homedepot.com	Session
thda.u	0ef9f2a5-5b01-cb99-acc5-...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT

The THD_USER value is encoded in base 64. Decoding it provides the following result, showing that the THD_USER cookie includes the customer's svocCustomerId, logonId, and userId.

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	<pre>{"customerType":"B2C","svocCustomerId":"0427EECDDDEFCD740S", "loginId":"z_user1@b.org","userId":"0427EECDDDF1CD740U"}</pre> For example, as shown in element 6[a], a network resource request from the client causes Home Depot servers to determine information (such as a user email) that was encoded and stored in the THD_PERSIST cookie in the client device. THD_PERSIST: "C12=z_user1@b.org; C12_EXP=1731554787;;C13=self; C13_EXP=1731554787" THD_SESSION: "" For example, as shown in element 6[a], a network resource request from the client causes Home Depot servers to determine information (such as a user ID) that was encoded and stored in the THD_CUSTOMER cookie in the client device. <pre>{"s":"0527F0C6FEAC631D0U:b203c1c6-13ce-42b6- b744-3cff7a1a01f8" "u":"0527F0C6FEAC631D0U" "i":"4mCgVUEmaxyRr78e5YWz6zwHzyY.*A AJTSQACMDIAAINLABxjTkt5S2xxai9nTIFXY2N2eHdNYjlyakNsUDg9AAR0eXBIAANDVFMAAI MxAAIwMQ..*","c":"B2B","g":"Contractors","t":"0527F0C6FEA4E31D0S","r":"ADMIN","v":17000 84996180,"k":"y"}</pre> As a second example, a network resource request from the client causes Home Depot servers to determine information (such as a userId or user email) that was encoded and stored in the Local Storage directly or within the C12 cookie in Local Storage in the client device.
--	--

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

SiteMap - The Home Depot

https://www.homedepot.com/c/site_map

80%

Black Friday Savings Happening Now. End 11/29

You're shopping
Longview
OPEN until 10 pm

Delivering to
75670

What can we help you find today?

My Account

Lists

Cart | 0 items

All Departments

Home Decor, Furniture & Kitchenware

DIY Projects & Ideas

Project Calculators

Installation & Services

Specials & Offers

Local Ad & Catalog

Sitemap - The Home Depot

About Home Depot

Electrical

Home Projects & Ideas

Playground Sets & Equipment

Home Décor

Inspector

Console

Debugger

Network

Storage

Cookies

Indexed DB

Local Storage

Session Storage

Key	Value
0427EECDDDF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1700025994177}
_meta_enrichmentService_user_failure	{"value":"not found","expires":"2023-11-16T03:26:35.775Z"}
BTT_Collect	{"value":"on","expires":"1700021754180"}
BTT_GUID_PV	{"GUID":"531626447404975825","cartValDOY":"318","cartVal":"0"}
BTT_WCD_Collect	{"value":"off","expires":"1700021754180"}
BTT_X0siD	{"value":"345589163605768860","expires":"1700021754180"}
C12	{"value":"z_user1%40b.org","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}
C13	{"value":"self","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}
deviceInfo1	{"cpuCores":16,"deviceClassification":2,"webgl2Supported":true}
NRBA_SESSION	{"value":"9a3b89abad8b3869","inactiveAt":1700021751767,"expiresAt":1700029513135,"updatedAt":1700019951935,"ses..."}
PXJ770cP7Y_px_fp	{"PX31":"35.7501022554934","PX32":"451a844752c9e884ffcaa777b36bbe3b","PX274":"17b9e238678e960ac4cb6fc58bd2..."}

Enlarged (showing userId “0427EE...” and email “z user...” as the value of key C12):

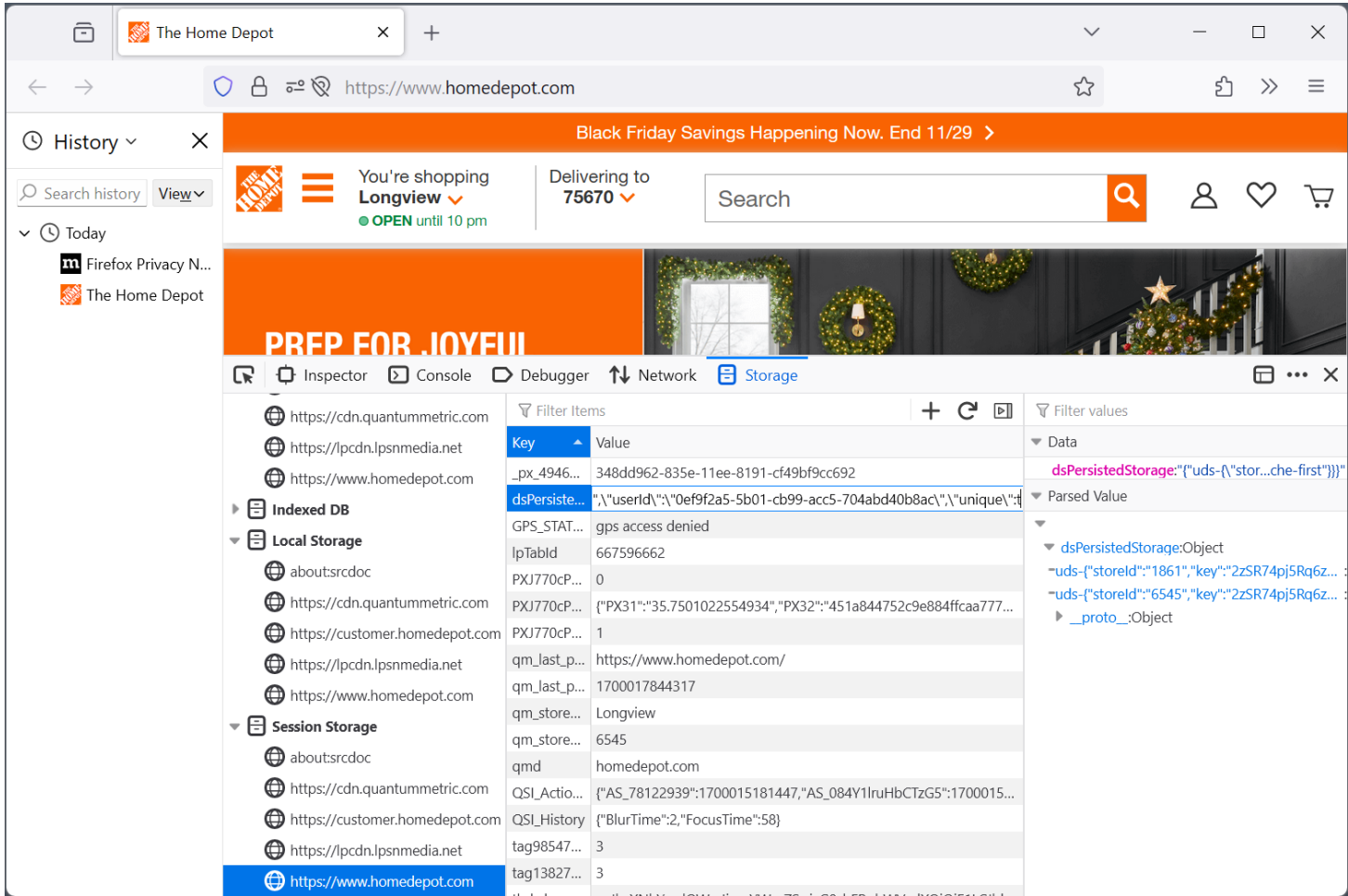
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Key ▲	Value
0427EECDDDF1CD740U	{ "numberOfServiceAccounts":0,"timestamp":1700025994177 }
_meta_enrichmentService_user_failure	{ "value":"not found","expires":"2023-11-16T03:26:35.775Z" }
BTT_Collect	{ "value":"on","expires":"1700019732438" }
BTT_GUID_PV	{ "GUID":"531626447404975825","cartValDOY":"318","cartVal":"0" }
BTT_WCD_Collect	{ "value":"off","expires":"1700020595612" }
BTT_X0siD	{ "value":"345589163605768860","expires":"1700020595612" }
C12	{ "value":"z_user1%40b.org","expiry":"Thu, 14 Nov 2024 03:26:27 GMT" }
C13	{ "value":"self","expiry":"Thu, 14 Nov 2024 03:26:27 GMT" }
As a third example, a network resource request from the client causes Home Depot servers to determine information (such as a device ID stored in the userId field (“0ef9f2a5...”) that was encoded and stored in the dsPersistedStorage within the Session Storage in the client device.	

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



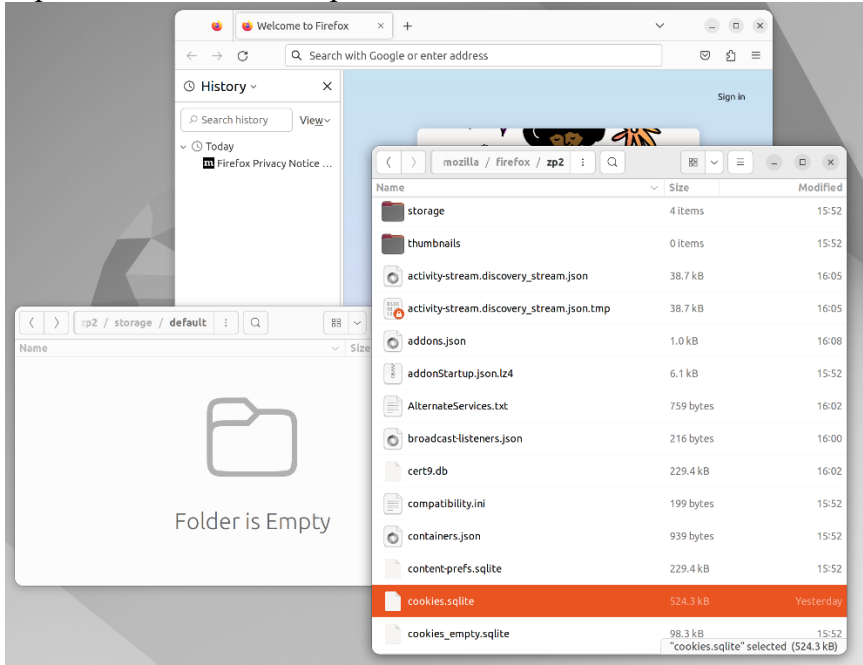
(Enlarged from above screenshot)

dsPersiste... "{\"userId\":\"0ef9f2a5-5b01-cb99-acc5-704abd40b8ac\",

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

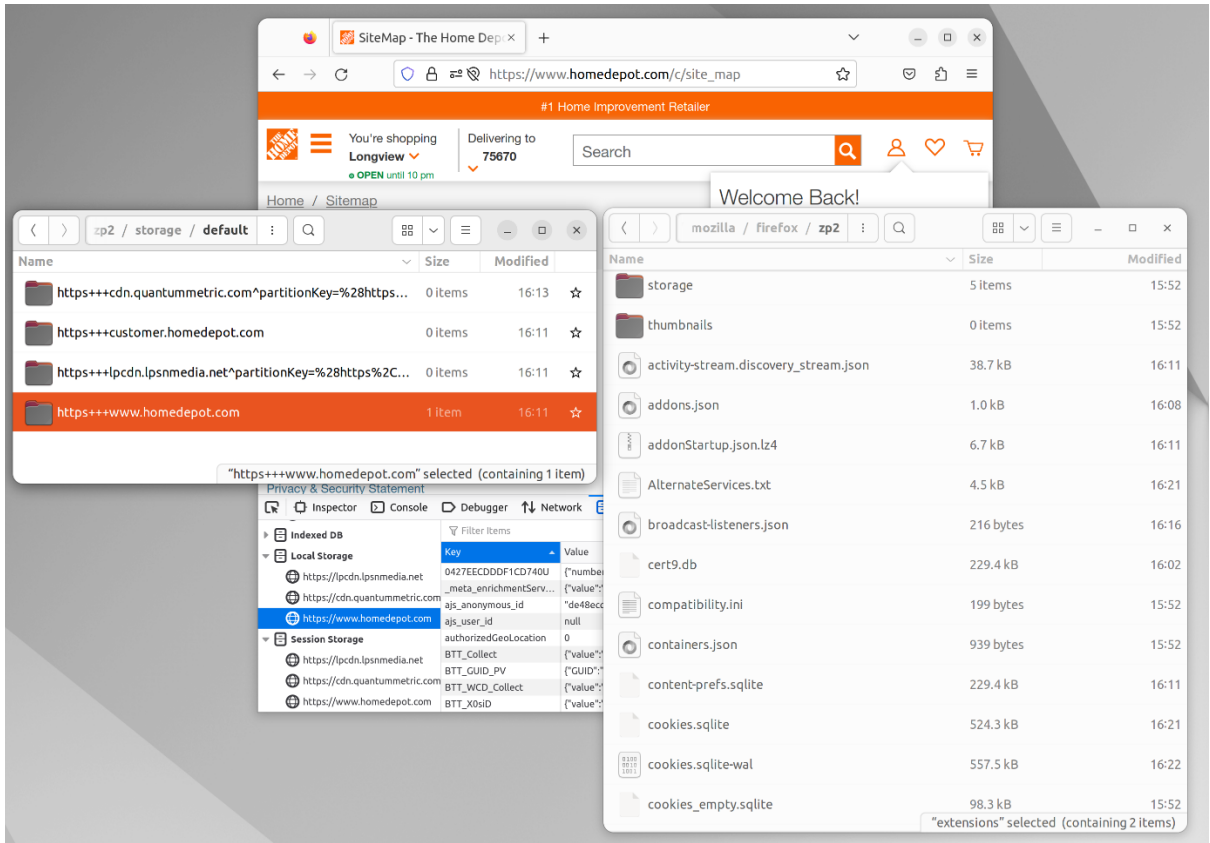
The Accused Instrumentalities determine information that was encoded and stored in the client device. For example, copying the cookies.sqlite database from [1] a first computer that stored cookies for a user who had logged in to homedepot.com to [2] a second computer that had never before been used to visit homedepot.com, then visiting homedepot.com on that second computer causes the Accused Instrumentalities to store, on the second computer, in the “Local Storage” area, the cookies described previously, such as a cookie with a name that matches the user ID stored in the THD_USER or THD_CUSTOMER cookie.

For example, as shown below, a second computer has an empty Local Storage folder. A cookies.sqlite database is then copied from the first computer.

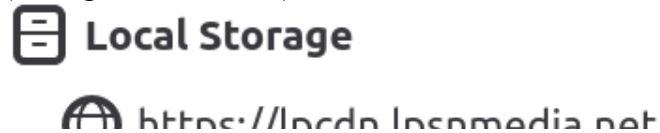


After the cookies.sqlite database is transferred, when the user visits homedepot.com, the Accused Instrumentalities cause cookies to be downloaded in the local storage such as the user ID key of the user on the first computer (“0427EE...”).

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



(Enlarged from above)



This shows that the Accused Instrumentalities are able to determine information that was encoded and stored in the cookies.sqlite database (Cookies storage area) with no other information.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Similarly, copying cookies from a logged in Pro Account user to a second computer shows the presence of the THD_CUSTOMER user ID in both Local Storage and Session Storage.

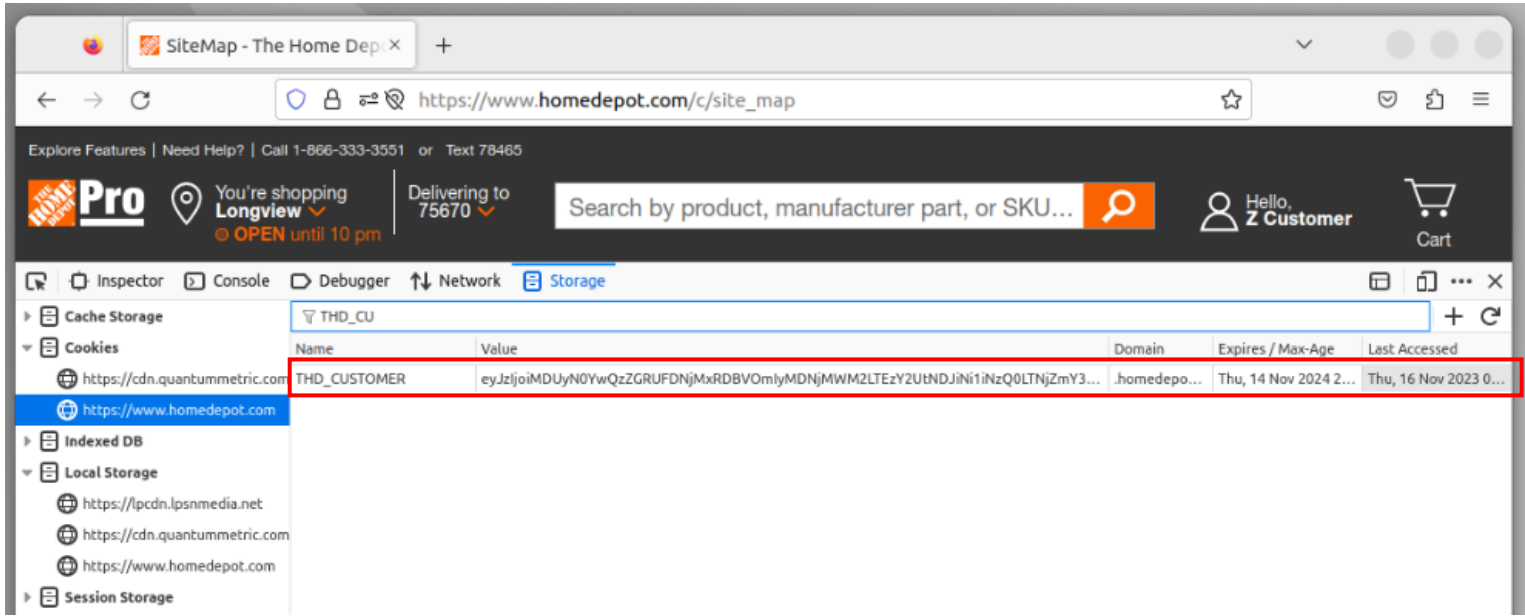
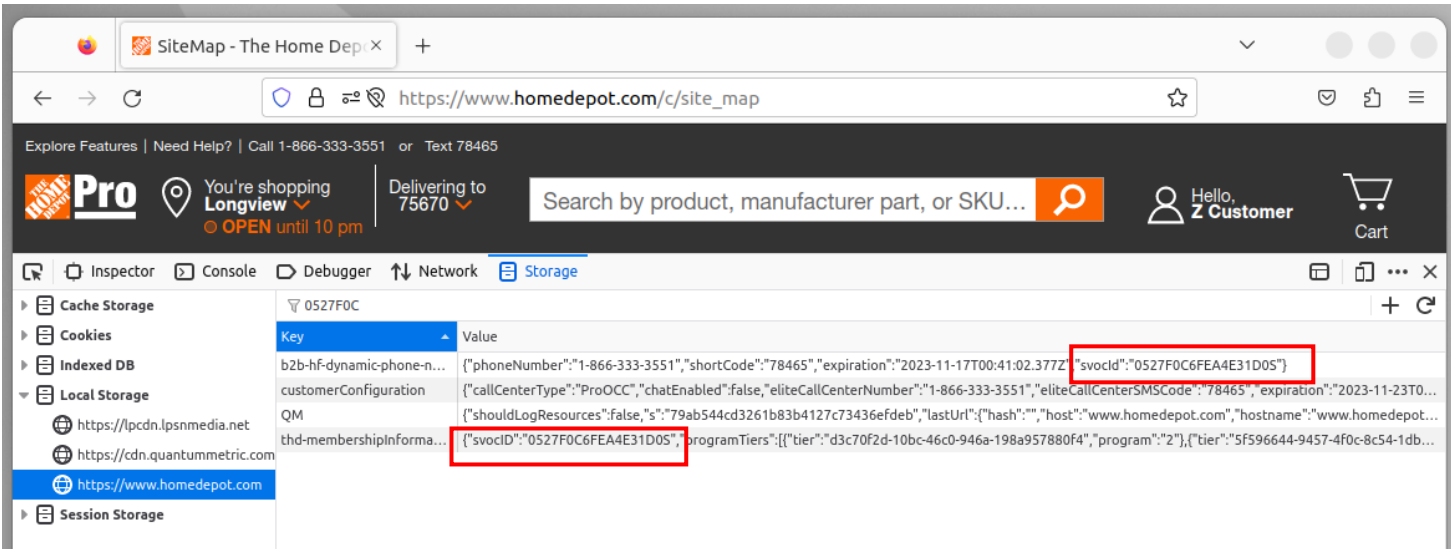


Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

User ID in Local Storage:

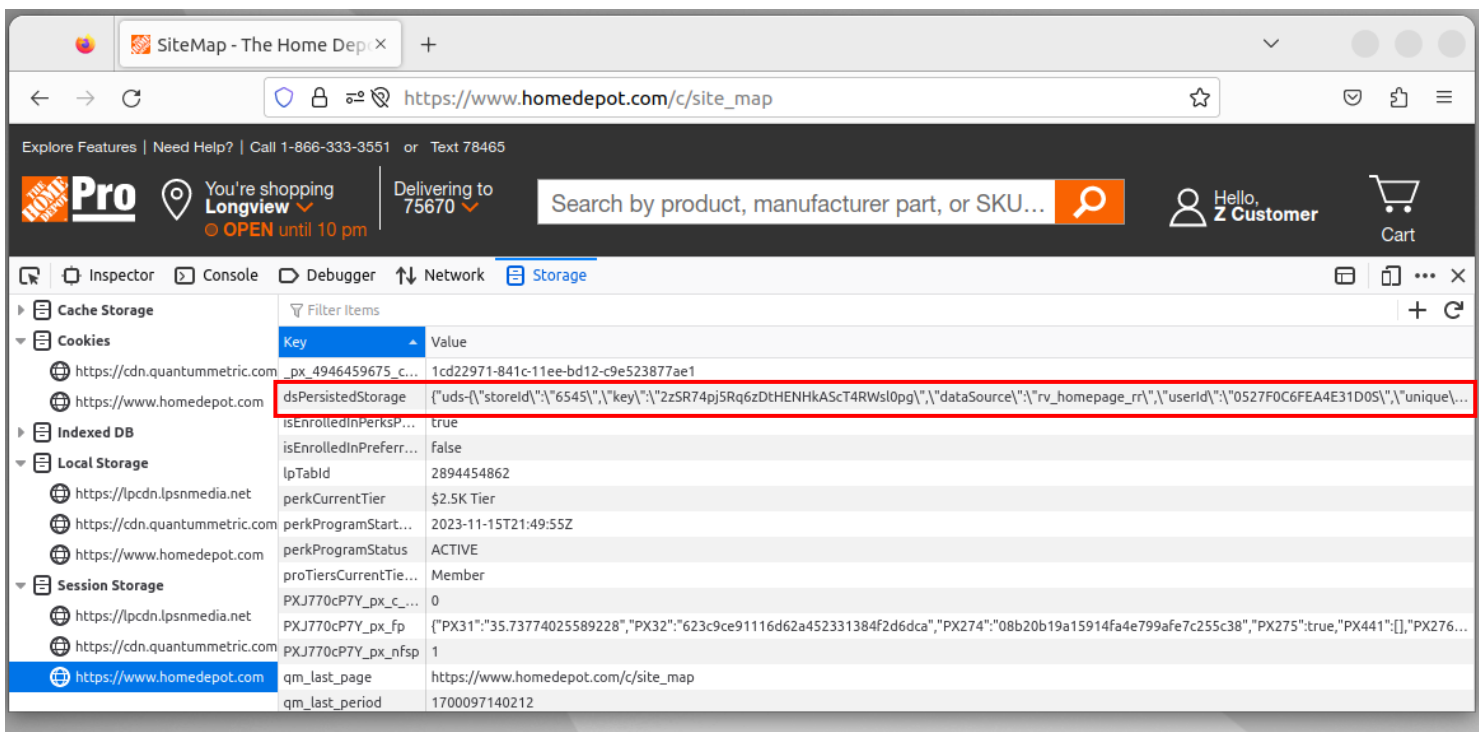


Enlarged:

`["svocID": "0527F0C6FEA4E31D0S"]`

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

User ID in Session Storage:



Enlarged:

dsPersistedStorage ... "userId\\":\\"0527F0C6FEA4E31D0S\\"

The value in the cookies was encoded and stored in the client device. For example, the value in at least the THD_USER, THD_USER_SESSION, and THD_CUSTOMER cookies is stored in base64 encoded format, as described above.

THD_USER	eyJjdXN0b21ldlR5cGUiOiJ0527F0C6FEA4E31D0S\".homedepot...	THD_USER_SESSION	eyJJzloiMDQyN0VFc0527F0C6FEA4E31D0S\".homedepot...
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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	THD_CUSTOMER: "eyJzIjoiMDUyN0YwQzZGRUFDNjMxRDBVomlyMDNjMWM2LTZyY2UtdNDJiNi1iNzQ0LTNjZmY3YTZhMDFmOCIsInUiOiIwNTI3RjBDNkZFQUM2MzFEMFUilCjpljoiNG1DZ1ZVRW1heHlScjc4ZTVZV3o2endlenlZLipBQUpUU1FBQ01ESUFBbE5MQUJ4alRrdDVTMnh4YWk5blRsRlhZMk4yZUhkTlIqbHlha05zVURnOUFBUEjBIWEJsQUFORFZGTUFBbE14QUFJd01RLi4qliwiYyI6IklYQilslmciOiJDY250cmFjdG9ycylsInQiOiIwNTI3RjBDNkZFQTRFMzFEMFMiLCJyIjoiQURNSU4iLCJ2IjoxNzAwMDg0OTk2MTgwLCJrIjoiJSJ9.Baaf81K2KXN5T01Ecys6JwleLCReRpvBDy--4_8HN29Y8YmZ8ewliZPPjuHH45RqEMb2EURNf_MpszDWwJUacQjlmX0bdemR4hDtf1OByrHWUjyqKSmwpO8bh1alZKKmM8ugrjXK7tnS1BPzid6qlf4hMWtMeGw17wbQvImjxaA" As an additional example, in browsers such as Chrome, cookies are stored in encrypted format. When Chrome is in use, Chrome decrypts the cookies so that they can be used normally, which is why the cookie values are viewable in the Chrome browser debugger tool. In contrast, the cookie names are viewable in the cookies database, but the values are not; instead, the values are stored in encrypted format, in the “encrypted_value” column, and shown as “BLOB”. For example, the “THD_USER” cookie data is viewable in the Chrome debugger tool, but is encrypted in the Chrome cookies database. In the example below, the Chrome browser stores cookies in a sqlite database named “Cookies” and stored at C:\Users\z1\AppData\Local\Google\Chrome\User Data\Default\Network\.
--	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The top screenshot shows the 'DB Browser for SQLite' application. The table 'cookies' is displayed with the following data:

	host_key	name	value	encrypted_value
4	.homedepot.com	THD_SESSION		BLOB
5	.homedepot.com	thda.u		BLOB
6	.homedepot.com	THD_SSUI_LOG_TOKEN		BLOB
7	.homedepot.com	THD_SSUI_TOKEN		BLOB
8	.homedepot.com	THD_FORCE_LOC		BLOB
9	.homedepot.com	THD_LOCALIZER		BLOB
10	.homedepot.com	THD_PERSIST		BLOB
11	.homedepot.com	THD_TMX_CACHE		BLOB
12	.homedepot.com	THD_USER		BLOB
13	.homedepot.com	THD_USER_SESSION		BLOB
14	.btttaq.com	thd3276851z-BrowserVersion		BLOB

The bottom screenshot shows a Windows File Explorer window displaying the 'User Data' directory of a Chrome browser. The 'Network' folder is selected, showing the following files:

Name	Size	Type	Modified	Attr
Cookies	76 KB	File	Today 1:45 PM	-a----
Cookies-journal	0 bytes	File	Today 1:45 PM	-a----
Network Persistent State	27.9 KB	File	Today 1:45 PM	-a----
NetworkDataMigrated	0 bytes	File	11/19/2023 5:40 PM	-a----
Reporting and NEL	84 KB	File	Today 1:45 PM	-a----
Reporting and NEL-journal	0 bytes	File	Today 1:45 PM	-a----

As another example, Chrome stores “Local Storage” data in encoded format on the client, so that it is viewable when using the Chrome debugger tool but is not viewable by a normal user outside of the debugger tool.

An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

6[c]. performing a first identification of at least one of the client device and a user of the client device using the first cookie of the first type, wherein the first identification is performed using the first cookie of the first type at least in part by using the determined information that was encoded and stored in the client device; and	Home Depot performs a first identification of at least one of the client device and a user of the client device using the first cookie of the first type, wherein the first identification is performed using the first cookie of the first type at least in part by using the determined information that was encoded and stored in the client device. As described above, a “first” cookie may be any of the cookies stored in Cookies, Local Storage, or Session Storage. The Accused Instrumentalities perform a first identification of at least one of the client device and a user of the client using, for example, a stored user ID or user email. For example, the thda.u cookie identifies at least one of the client device and a user of the client using a device ID (“0ef9f2a5...”) that was encoded and stored in the thda.u cookie in the client device. The value of the thda.u cookie in the Cookies storage area identifies the device, and remains the same before any user logs into homedepot.com on a browser, after a user logs in to a user account, after a user logs out, and after a user logs in to a second, Pro user account.
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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

[illegible]

For example, the THD_USER cookie identifies at least one of the client device and a user of the client using any of a svocCustomerId, logonId, and user ID that was encoded and stored in the THD_USER cookie in the client device.

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	<pre> {"customerType":"B2C","svocCustomerId":"0427EECDDDEFCD740S" ,"loginId":"z_user1@b.org","userId":"0427EECDDDF1CD740U"} </pre> For example, the THD_USER_SESSION cookie identifies at least one of the client device and a user of the client using the same user ID value that is stored in the THD_USER cookie (here, "0427EECD ...") that was encoded in base64 format and stored in the THD_USER_SESSION cookie in the client device. <pre> {"s":"0427EECDDDF1CD740U:11eb45ac-ae7-4f9d- b97c-933761f31e7b","u":"0427EECDDDF1CD740U","i":"3wZWXxWhPx6P9iz 0s0DBfFX3AIs.*AAJTSQACMDIAAINLABxVN0JNbHlZyY9OZGxhQjFDQnRT UE95S0V5dTA9AAR0eXBIAANDVFMAAIMxAAIwMQ..*","c":"B2C","t":"0427E ECDDDEFCD740S","v":1700018787584,"k":"y"} </pre> For example, the THD_PERSIST cookie identifies at least one of the client device and a user of the client using a user email that was encoded and stored in the THD_PERSIST cookie in the client device. <pre> THD_PERSIST: "C12=z_user1@b.org; C12_EXP=1731554787;C13=self; C13_EXP=1731554787" </pre> <pre> THD_SESSION: "" </pre> For example, the THD_CUSTOMER cookie identifies at least one of the client device and a user of the client using a user email that was encoded and stored in the THD_CUSTOMER cookie in the client device.
--	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

```
{
  "s": "0527F0C6FEAC631D0U:b203c1c6-13ce-42b6-b744-3cff7a1a01f8",
  "u": "0527F0C6FEAC631D0U",
  "i": "4mCgVUEmaxyRr78e5YWz6zwHzyY.*A",
  "AJTSQACMDIAAINLABxjTkt5S2xxai9nTIFXY2N2eHdNYjlyakNsUDg9AAR0eXBIAANDVFMAAI",
  "MxAAIwMQ..*",
  "c": "B2B",
  "g": "Contractors",
  "t": "0527F0C6FEA4E31D0S",
  "r": "ADMIN",
  "v": "1700084996180",
  "k": "y"
}
```

As a second example, the user ID key that was encoded and stored in the Local Storage directly (as key 0427EE...) or the C12 cookie that was encoded and stored in the Local Storage identifies at least one of the client device and a user of the client using a user ID or user email stored in the client device. Further, if the user is logged in with a Pro Account, the C13 cookies stores the user's login name (see 6[a]).

Enlarged (showing userId "0427EE..." and email "z_user..." as the value of key C12):

Key	Value
0427EECDDDF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1700025994177}
_meta_enrichmentService_user_failure	{"value":"not found","expires":"2023-11-16T03:26:35.775Z"}
BTT_Collect	{"value":"on","expires":"1700019732438"}
BTT_GUID_PV	{"GUID":"531626447404975825","cartValDOY":"318","cartVal":"0"}
BTT_WCD_Collect	{"value":"off","expires":"1700020595612"}
BTT_X0siD	{"value":"345589163605768860","expires":"1700020595612"}
C12	{"value":"z_user1%40b.org","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}
C13	{"value":"self","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}

As additional examples, the userID that is stored in the THD_CUSTOMER cookies is also stored in the thd-membershipinformation, b2b-hf-dynamic-phone-number, and customerConfiguration cookies in Local Storage.

As additional examples, the userID that is stored in the THD_USER or THD_CUSTOMER cookies is also stored in the THD_CART and checkoutPromptsDisplayInfo cookies in Local Storage when, for example, a user is logged in and has an item in the user's cart.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

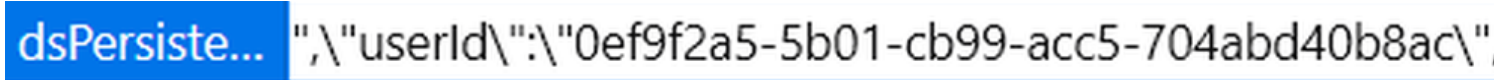
	As additional examples, the userID that is stored in the THD_USER or THD_CUSTOMER cookies may also be stored in QM and gpc cookies in the Local Storage area. As a third example, the dsPersistedStorage cookie within the Session Storage identifies at least one of the client device and a user of the client using a device ID (“0ef9f2a5...”) that was encoded and stored in the dsPersistedStorage cookie within the Session Storage in the client device. The value of the dsPersistedStorage cookie in session storage identifies the device by including the same value as the thda.u cookie when, for example, no user is logged in to homedepot.com. In other situations, such as when a user is logged into homedepot.com, the value of the dsPersistedStorage cookie instead includes the same value as the THD_USER or THD_CUSTOMER cookie, and identifies the user of the device.  As the user is recognized through information present in any of the cookies that track a user ID or a device ID, by the Accused Instrumentalities’ servers, the user will see a “Welcome Back!” message displayed. Here, the Accused Instrumentalities recognize the user by at least one of THD_USER_SESSION or THD_USER.
--	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

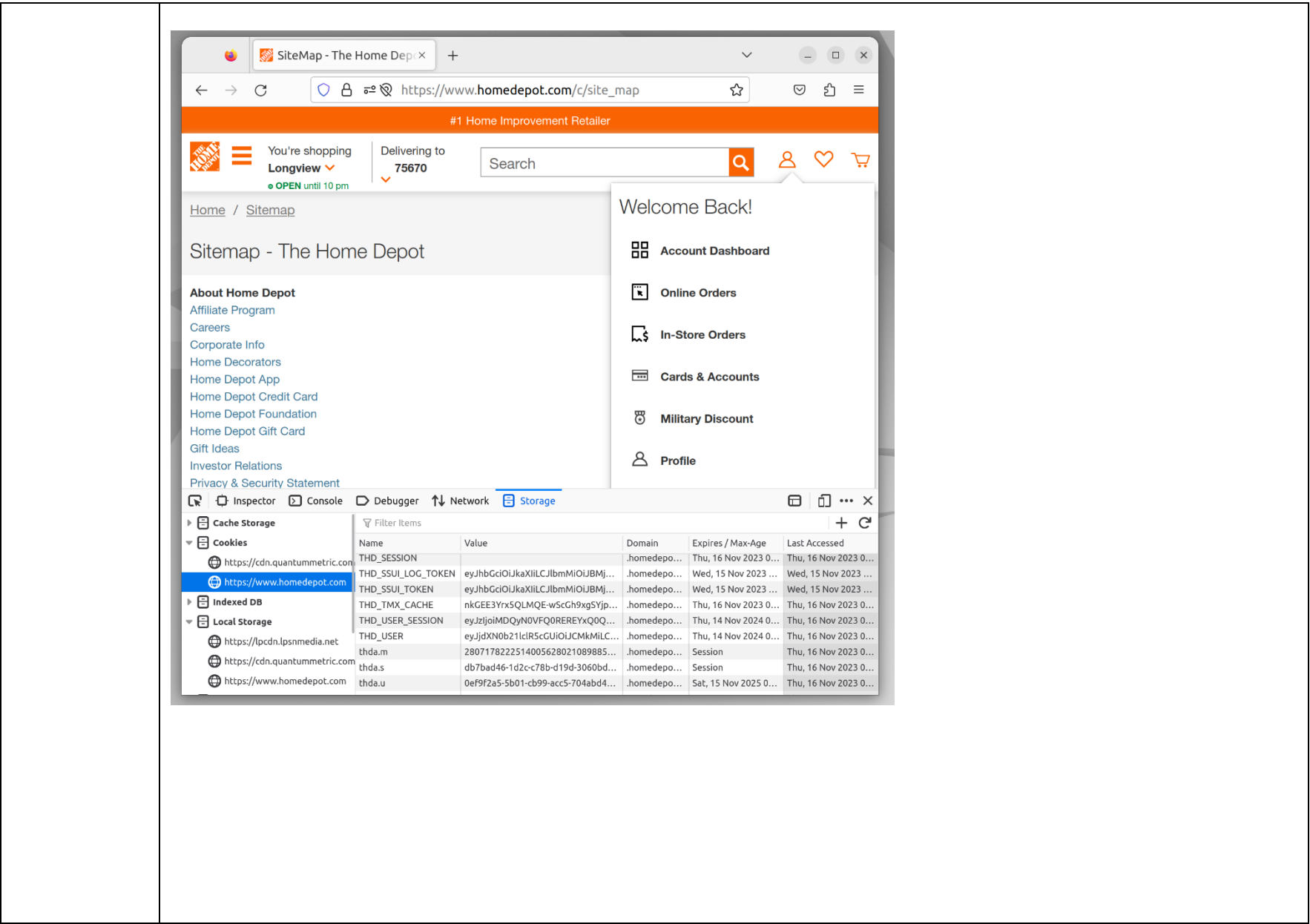


Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Enlarged:

Cookies

https://cdn.quantummetric.com

https://www.homedepot.com

Indexed DB

Local Storage

https://locdn.losnmedia.net

Name	Value	Domain
THD_SESSION		.homedepo...
THD_SSUI_LOG_TOKEN	eyJhbGciOiJkaXIiLCJlbmMiOiJBMj...	.homedepo...
THD_SSUI_TOKEN	eyJhbGciOiJkaXIiLCJlbmMiOiJBMj...	.homedepo...
THD_TMX_CACHE	nkGEE3Yrx5QLMQE-wScGh9xgSYjp...	.homedepo...
THD_USER_SESSION	eyJzIjoieMDQyN0VFQ0REREYxQ0Q...	.homedepo...
THD_USER	eyJjdXN0b21lclR5cGUiOiJCMkMiLC...	.homedepo...

As an additional example showing that the Accused Instrumentalities identify a device using information stored on the device, when a user logs in to a device, the Accused Instrumentalities send an email to the user's email account if the Accused Instrumentalities determine that the user has logged in using a device that the user has not previously used for logging in to homedepot.com. An example of such an email is shown below.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



How does
get more done.

Did you sign in to your account?

We noticed a sign-in to your account from a device we don't recognize. **If this was you, no further action is needed.**

When: **November 14, 4:44 PM**
Where: near **San Francisco, CA**

If this was not you, reset your password and review your account for unauthorized activity.

Reset Password

Why did I get this email?

We'll always notify you when there is a sign-in to your Home Depot account from an unrecognized device to help protect you from unauthorized activity.

Visit your [Security & Password page](#) to review sign-in activity and manage security features.

Please do not reply to this automated message.



How does
get more done.



[Privacy & Security](#)[Return Policy](#)[Customer Service](#)

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2455 Paces Ferry Rd SE, Atlanta, GA 30339

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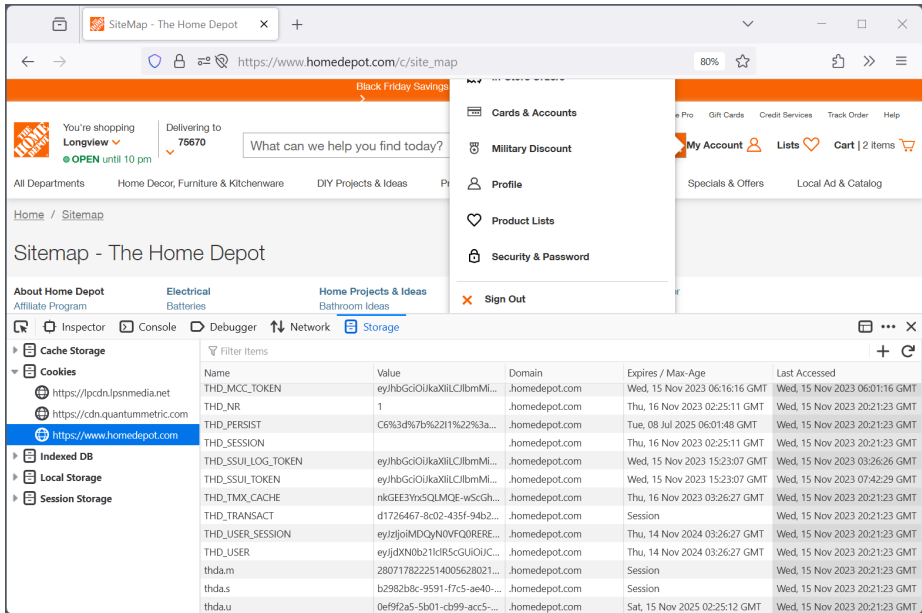
Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	The Accused Instrumentalities may also identify users and devices with other cookies not specifically identified here or by using cookie-less methods. An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.
6[d]. performing a second identification of at least one of the client device and the user of the client device using the second cookie of the second type; and	Home Depot performs a second identification of at least one of the client device and the user of the client device using the second cookie of the second type. The “second” cookie can be any of the cookies described above if the “second” cookie is stored in a different location than the “first” cookie. So, for example, if the THD_USER cookie or another cookie stored in the “Cookies” storage area is the “first” cookie, the “second” cookie may be any of the cookies stored in the “Local Storage” area or the “Session Storage” area. Similarly, if the C12 or another cookie stored in the “Local Storage” area is the “first” cookie, the “second” cookie can be any of the cookies stored in the “Cookies” area or the “Session Storage” area. For example, as discussed in limitation 6[c], the Accused Instrumentalities identify a client device or a user of the client device using: 1. cookies stored in the “Cookies” storage area, such as “thda.u,” “THD_USER,” “THD_USER_SESSION,” “THD_PERSIST,” or “THD_CUSTOMER;” 2. cookies stored in the “Local Storage” area, such as C12 or the user ID key; and 3. cookies stored in the “Session Storage” area, such as the dsPersistedStorage cookie. The Accused Instrumentalities may also identify users and devices with other cookies not specifically identified here or by using cookie-less methods. An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.
6[e]. performing a determination based at least in part on (1)	Home Depot performs a determination based at least in part on (1) a presence of a network resource request associated with one of the first cookie and the second cookie, and (2) an absence of a network resource request associated with the other of the first cookie and the second cookie.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

a presence of a network resource request associated with one of the first cookie and the second cookie, and (2) an absence of a network resource request associated with the other of the first cookie and the second cookie.	When a user visits homedepot.com, a presence of a network resource request associated with one of the first cookie and the second cookie can be identified by, for example, examining the cookies described in elements 6[c] and 6[d], any of which can be the “first” or “second” cookie for the reasons explained in element 6[c]. The Accused Instrumentalities perform determinations such as: 1. Determining whether a current user who is not logged in is the same user who was previously logged in. Such a determination may be based on the presence of a network resource request associated with a cookie that identifies a <u>device</u> stored in one of the Cookies, Local Storage, or Session Storage browser areas and the absence of a network resource request associated with a cookie that identifies a <u>logged-in user</u> stored in a different area than the first cookie. After logging in to homedepot.com and then logging out, certain cookies continue to contain information that identifies a user. For example, if the THD_USER cookie (for a Personal Account) or THD_CUSTOMER cookie (for a Pro Account) stored in the Cookies storage area is deleted, the previously-logged in user’s user ID values and email address (which may also be used as a user ID) continue to be stored in Local Storage. Similarly, the value of the thda.u cookie, which contains a device ID, does not change regardless of whether a user is logged in or not. For example, the cookies of a Personal Account user are shown below while logged in.
--	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



The THD_USER_SESSION, THD_USER, and thda.u cookies are visible in this enlarged image:

THD_USER_SESSION	eyJzljoiMDQyNOVFQ0RERE...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
THD_USER	eyJjdXN0b21lclR5cGUiOiJC...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
thda.m	2807178222514005628021...	.homedepot.com	Session
thda.s	b2982b8c-9591-f7c5-ae40-...	.homedepot.com	Session
thda.u	0ef9f2a5-5b01-cb99-acc5-...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT

As described above, the decoded values of THD_USER_SESSION contain a user ID 0427EE...

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	<pre>{ "s": "0427EECDDDF1CD740U:11eb45ac-ae7-4f9d- b97c-933761f31e7b" "u": "0427EECDDDF1CD740U", "i": "3wZWXxWhPx6P9iz 0s0DBfFX3Als.*AAJTSQACMDIAAINLABxVN0JNbHlzYy9OZGxhQjFDQnRT UE95S0V5dTA9AAR0eXBIAANDVFMAAIMxAAIwMQ..*", "c": "B2C", "t": "0427E ECDDDEFCD740S", "v": 1700018787584, "k": "y" }</pre> Similarly, the THD_USER cookie also contains the same user ID 0427EE... and the user's email address. <pre>{ "customerType": "B2C", "svocCustomerId": "0427EECDDDEFCD740S" , "loginId": "z_user1@b.org", "userId": "0427EECDDDF1CD740U" }</pre>
--	---

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

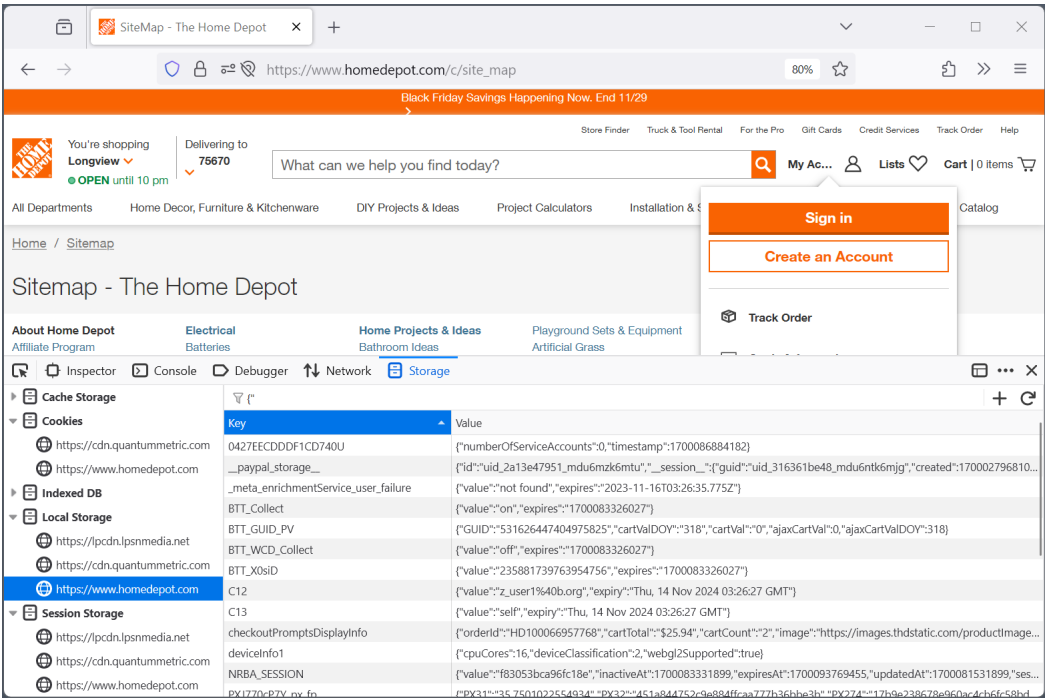
The dsPersistedStorage cookie in Session Storage of a user logged in to a Personal Account is shown below, displaying the User ID 0427EE....:

The screenshot shows the Home Depot website with the browser's developer tools open. The 'Storage' tab is active, displaying a list of cookies. The 'dsPersistedStorage' cookie is selected, showing its value as a JSON object containing user information, including the User ID '0427EE'.

Key	Value
_px_4946459675...	b9e62f71-8365-11ee-b2aa-7ba1d96122ad
dsPersistedStorage	{"userId":"0427EECDDEFCDD7405","unique":true,"zipCode":"75605","apiName":"GULP_TH2","hda":{"eVar62":{"STH:n BOPIS BOSS:y APPL:n BODFS:n","t":"21:52:39"},"ipTabId":4473944619,"NRBA_SESSION_ID":ad2e1beb30733c02,"PIM_SESSION_ID":B4asRIAUCYREVUoT,"PXJ770cP7Y_px_fp":0,"PXJ770cP7Y_px_fp":{"PX31":"35.7501022554934","PX32":"451a844752c9e884fcaa777b36bbe3b","PX27...":1,"_client_tag":v6.3.4,PX123:d35f3e60-8379-11ee-88f7-030b4e188c97,PX378:17000269...},"qm_last_page":https://www.homedepot.com/c/site_map,"qm_last_period":1700080523837}}

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

After logging out, the Local Storage area of the client device is shown below:



As seen in this enlarged image, the User ID key persists (0427EE...) and the C12 cookie continues to contain the user's email address:

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Key	Value
0427EECDDDF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1700086884182}
__paypal_storage__	{"id":"uid_2a13e47951_mdu6mzk6mtu","__session__":{"guid":"uid_316361
_meta_enrichmentService_user_failure	{"value":"not found","expires":"2023-11-16T03:26:35.775Z"}
BTT_Collect	{"value":"on","expires":"1700083326027"}
BTT_GUID_PV	{"GUID":"531626447404975825","cartValDOY":"318","cartVal":"0","ajaxCar
BTT_WCD_Collect	{"value":"off","expires":"1700083326027"}
BTT_X0siD	{"value":"235881739763954756","expires":"1700083326027"}
C12	{"value":"z_user1%40b.org","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}
C13	{"value":"self","expiry":"Thu, 14 Nov 2024 03:26:27 GMT"}

SiteMap - The Home Depot

https://www.homedepot.com/c/site_map

Black Friday Savings Happening Now. End 11/29

You're shopping Longview

Delivering to 75670

What can we help you find today?

My Ac...

Lists

Cart | 0 items

All Departments

Home Decor, Furniture & Kitchenware

DIY Projects & Ideas

Project Calculators

Installation & S

Catalog

Home / Sitemap

Sitemap - The Home Depot

About Home Depot

Electrical

Home Projects & Ideas

Playground Sets & Equipment

Inspector

Console

Debugger

Network

Storage

Cache Storage

Cookies

Indexed DB

Local Storage

Session Storage

0427EECDD

Key

Value

0427EECDDDF1CD740U

checkoutPromptsDisplayInfo

Q1M

THD_CART

0427EECDDDF1CD740U

checkoutPromptsDisplayInfo

Q1M

THD_CART

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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The User ID also persists in the checkoutPromptsDisplayInfo, QM, and THD_CART cookies shown in this enlarged image, all of which contain the User ID 0427EE....

🔍 0427EECDD

Key	Value
0427EECDDDF1CD740U	{"numberOfServiceAccounts":0,"timestamp":1700086884182}
checkoutPromptsDisplayInfo	{"orderId":"HD100066957768","cartTotal":"\$25.94","cartCount":"2","image":"https://images.thdstatic.
QM	{"shouldLogResources":false,"s":"e11afbd03fac490a6ab893c177727f72","events":[{"i":817,"v":"","t":17
THD_CART	{"cart":{"promotionCode":"","cartAction":"","saveQuoteName":"","userId":"0427EECDDDEFCD740S","

In contrast, other cookies change depending on whether a user is signed in or not. For example, if a user logs out, the Accused Instrumentalities delete any THD_USER, THD_USER_SESSION, and THD_CUSTOMER cookies.

For example, below are the cookies of a Personal Account user while logged in (same image as above).

THD_USER_SESSION	eyJZljoIMDQyN0VFQ0RERE...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
THD_USER	eyJjdXN0b21ldlR5cGUiOiJC...	.homedepot.com	Thu, 14 Nov 2024 03:26:27 GMT
thda.m	2807178222514005628021...	.homedepot.com	Session
thda.s	b2982b8c-9591-f7c5-ae40-...	.homedepot.com	Session
thda.u	0ef9f2a5-5b01-cb99-acc5-...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

After logging out, the cookies appear as shown:

The screenshot shows the Home Depot website's Sitemap page. The browser's developer tools are open, displaying a table of cookies. The table has columns for Name, Value, Domain, Expires / Max-Age, and Last Accessed. The cookies listed are:

Name	Value	Domain	Expires / Max-Age	Last Accessed
THD_LOCALIZER	%257B%2522WORKFLOW%2522%25...	.homedepot.com	Thu, 14 Nov 2024 20:21:23 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_MCC_ID	2e6bfd13-bfcd-4b90-bd66-1ce0da2...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
THD_MCC_TOKEN	eyJhbGciOiJIaXilCjIibmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 06:16:16 GMT	Wed, 15 Nov 2023 06:01:16 GMT
THD_NR	1	.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_PERSIST		.homedepot.com	Thu, 14 Nov 2024 20:40:18 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_SSUI_LOG_TOKEN	eyJhbGciOiJIaXilCjIibmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT	Wed, 15 Nov 2023 03:26:26 GMT
THD_SSUI_TOKEN	eyJhbGciOiJIaXilCjIibmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT	Wed, 15 Nov 2023 07:42:29 GMT
THD_TM_X_CACHE	nkGEE3Yx5QLMQE-wScGh9xgYjp1...	.homedepot.com	Thu, 16 Nov 2023 03:26:27 GMT	Wed, 15 Nov 2023 20:40:18 GMT
thda.m	280717822251400562802108988508...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
thda.s	b2982b8c-9591-f7c5-ae40-f1dad810...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT	Wed, 15 Nov 2023 20:40:18 GMT

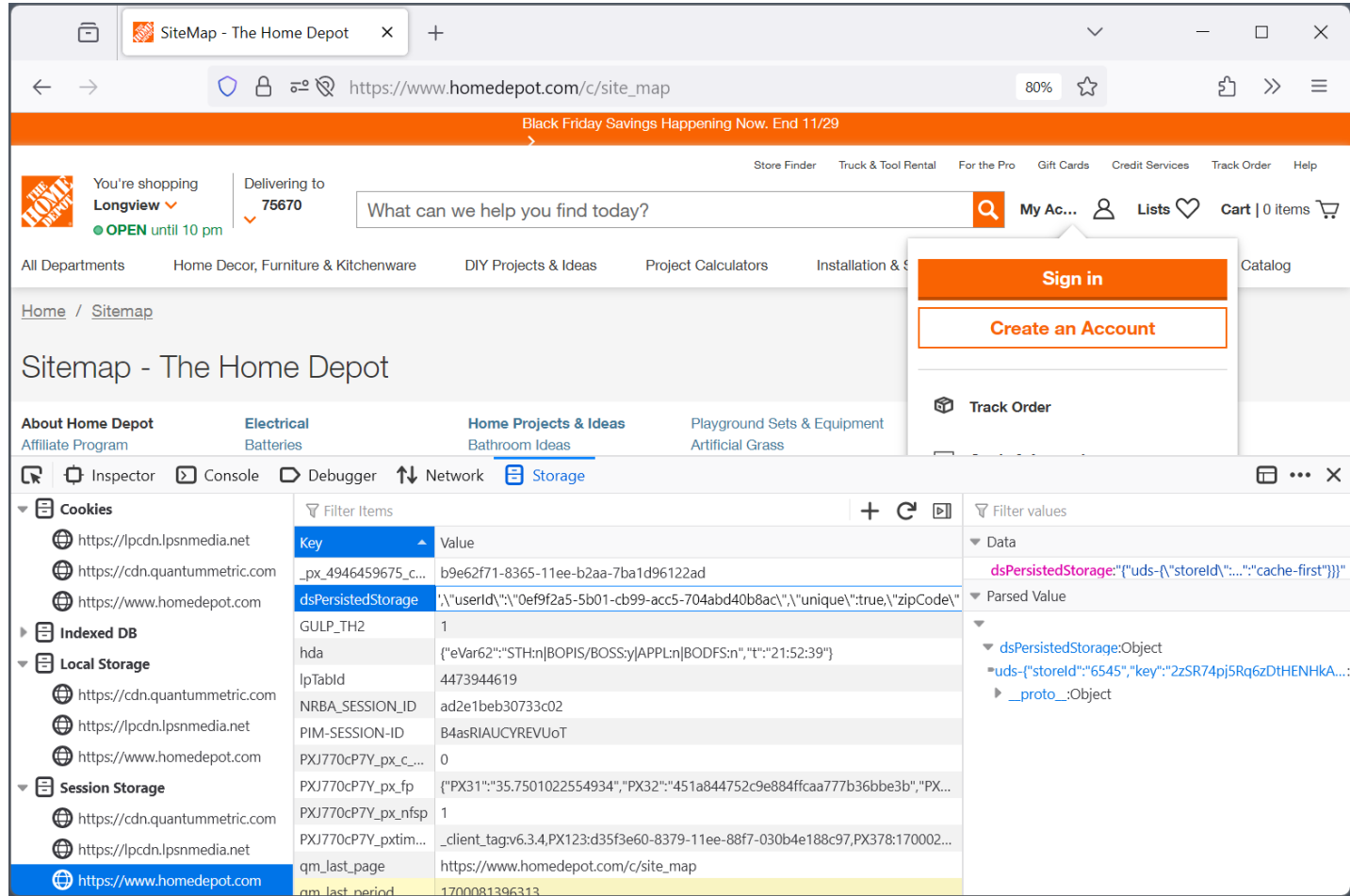
As seen in this enlarged view, THD_USER and THD_USER_SESSION have been deleted and THD_PERSIST is now blank:

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

THD_PERSIST	""	.homedepot.com	Thu, 14 Nov 2024 20:40:18 GMT
THD_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT
THD_SSUI_LOG_TOKEN	eyJhbGciOiJkaXIiLCJlbmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT
THD_SSUI_TOKEN	eyJhbGciOiJkaXIiLCJlbmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT
THD_TMX_CACHE	nkGEE3Yrx5QLMQE-wScGh9xgSVjp1...	.homedepot.com	Thu, 16 Nov 2023 03:26:27 GMT
thda.m	280717822251400562802108988508...	.homedepot.com	Session
thda.s	b2982b8c-9591-f7c5-ae40-f1dad810...	.homedepot.com	Session
thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT

In Session Storage, the dsPersistedStorage cookie has also reverted back to the device ID (0ef9f...)

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



Enlarged:

dsPersistedStorage	'\\"userId\\":\\"0ef9f2a5-5b01-cb99-acc5-704abd40b8ac\\",\\"unique\\":true,\\"zipCode\\'
--------------------	--

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

For a Pro Account, the Accused Instrumentalities will function similarly. The Accused Instrumentalities will cause the client device to store THD_CUSTOMER (with decoded user ID 0527F...) and THD_PERSIST (with customer email) cookies in Cookies storage (full walkthrough described in element 6[a]).

THD_

Name	Value	Domain
THD_CACHE_NAV_SESSION		.homedepot.com
THD_CART_HASH	dd29b1e5a	.homedepot.com
THD_CUSTOMER	eyJzljoiMDUyN0YwQzZGRUFDN...	.homedepot.com
THD_LOCALIZER	%257B%2522WORKFLOW%252...	.homedepot.com

```
{
  "s": "0527F0C6FEAC631D0U:b203c1c6-13ce-42b6-b744-3cff7a1a01f8",
  "u": "0527F0C6FEAC631D0U",
  "i": "4mCgVUEmaxyRr78e5YWz6zwHzyY.*A",
  "AJTSQACMDIAAINLABxjTkt5S2xxai9nTIFXY2N2eHdNYjlyakNsUDg9AAR0eXBIAANDVFMAAI",
  "MxAAIwMQ..*",
  "c": "B2B",
  "g": "Contractors",
  "t": "0527F0C6FEA4E31D0S",
  "r": "ADMIN",
  "v": 1700084996180,
  "k": "y"
}
```

Request Cookies

```
THD_PERSIST: 'C6={"i1":"0"};;C6_EXP=1702679117;;
C12=z_customer1@b.org;;
C12_EXP=1751927117;;C13=Z
CUSTOMER;;C13_EXP=1751927117'
```

The Accused Instrumentalities will cause the client device to store b2b-hf-dynamic-phone-number, customerConfiguration, QM, thd-membershipinformation, C12, C13, and THD_CART cookies in Local Storage (see 6[a] for full walkthrough), all containing the 0527F0C6... user ID, user email (C12), or user name (C13).

0527F0C6

Key	Value
b2b-hf-dynamic-phone-num...	{"phoneNumber":"1-800-525-5000","shortCode":"78465","expiration":"2023-11-16T21:50:09.535Z","svocId":"0527F0C6FEA4E31D0S"}
customerConfiguration	{"callCenterType":"ProOcc","chatEnabled":false,"eliteCallCenterNumber":"1-866-333-3551","eliteCallCenterSMSCode":"78465","expira..."}
QM	{"shouldLogResources":false,"s":"ca6fd6c3a3655f8b564f03af1e247b9c","events":[{"i":"817","v":"","t":"1700084763838"},{"i":"-25","v":"Cookie..."}
thd-membershipInformation	{"svocID":"0527F0C6FEA4E31D0S","programTiers":[],"expireTime":1700128209617}

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

SiteMap - The Home Depot

https://www.homedepot.com/c/site_map

80%

Explore Features | Need Help? | Call 1-800-525-5000 or Text 78465

Pro

You're shopping Longview

OPEN until 10 pm

Delivering to 75670

Search by product, manufacturer part, or SKU number..

Hello, Z Customer

Cart

All Products

Specials & Offers

Credit Services

Rental

Services

Special Order

Resource Center

Lists

Buy It Again

Quotes

Quick Add

Black Friday Savings All Month Long — Shop Now >

Home / Sitemap

Sitemap - The Home Depot

About Home Depot

Electrical

Home Projects & Ideas

Playground Sets & Equipment

Home Décor

Inspector

Console

Debugger

Network

Storage

Cache Storage

Cookies

Indexed DB

Local Storage

Session Storage

Key

Value

https://cdn.quantummetric.com

0427EECDDDF1CD740U

{ "numberOfServiceAccounts":0,"timestamp":1700086884182 }

https://www.homedepot.com

__paypal_storage__

{ "id":"uid_2a13e47951_mdu6mzk6mtu","__session__":{"guid":"uid_316361be48_mdu6ntk6mjg","created":1700027968100},"experimen...

_meta_enrichmentService_use...

{ "value":"not found","expires":"2023-11-16T03:26:35.775Z" }

b2b-hf-dynamic-phone-num...

{ "phoneNumber":"1-800-525-5000","shortCode":"78465","expiration":"2023-11-16T21:50:09.535Z","svocId":"0527F0C6FEA4E31D0S" }

https://lpcdn.lpsnmedia.net

BTT_Collect

{ "value":"on","expires":"1700086620224" }

https://cdn.quantummetric.com

BTT_GUID_PV

{ "GUID":"531626447404975825","cartValDOY":"318","cartVal":"0","ajaxCartVal":"0","ajaxCartValDOY":318 }

https://www.homedepot.com

BTT_WCD_Collect

{ "value":"off","expires":"1700087597031" }

BTT_X0siD

{ "value":"541756187758760199","expires":"1700087597031" }

https://lpcdn.lpsnmedia.net

C12

{ "value":"z_customer1%40b.org","expiry":"Thu, 14 Nov 2024 21:49:56 GMT" }

https://cdn.quantummetric.com

C13

{ "value":"Z%20CUSTOMER","expiry":"Thu, 14 Nov 2024 21:49:56 GMT" }

https://www.homedepot.com

checkoutPromptsDisplayInfo

{ "orderId":"HD100066957768","cartTotal":"\$25.94","cartCount":"2","image":"https://images.thdstatic.com/productImages/554a3f25-6...

customerConfiguration

{ "callCenterType":"ProOcc","chatEnabled":false,"eliteCallCenterNumber":"1-866-333-3551","eliteCallCenterSMSCode":"78465","expira...

deviceInfo1

{ "cpuCores":16,"deviceClassification":2,"webgl2Supported":true }

THD_CART

{ "cart":{"promotionCode":"","cartAction":"remove","saveQuoteName":"","userId":"0527F0C6FEA4E31D0S","expressCheckout":false,"pay...

After logging out, the THD_CUSTOMER cookie is deleted and the THD_PERSIST cookie is blanked (both in Cookie storage).

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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Black Friday Savings Happening Now. End 11/29

You're shopping **Longview** ▼ | Delivering to **75670** ▼

What can we help you find today? 🔍 **My Ac...** 👤 **Lists** 👤 **Cart** | 0 items 🛒

Sign in
Create an Account

Home / [Sitemap](#)

Sitemap - The Home Depot

Inspector Console Debugger Network **Storage**

- Cache Storage
- Cookies**
 - https://lpcdn.lpsnmedia.net
 - https://cdn.quantummetric.com
 - https://www.homedepot.com**
- Indexed DB
- Local Storage
- Session Storage

thd

Name	Value	Domain	Expires / Max-Age	Last Accessed
THD_CACHE_NAV_PERSIST		.homedepot.com	Mon, 07 Jul 2025 02:25:11 G...	Wed, 15 Nov 2023 22:53:52 ...
THD_CACHE_NAV_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 ...	Wed, 15 Nov 2023 22:53:52 ...
THD_CART_HASH	dd29b1e5a	.homedepot.com	Fri, 15 Dec 2023 05:39:15 G...	Wed, 15 Nov 2023 22:26:00 ...
THD_LOCALIZER	%257B%2522WORKFLOW%2522%253A%25...	.homedepot.com	Thu, 14 Nov 2024 22:53:54 ...	Wed, 15 Nov 2023 22:53:54 ...
THD_MCC_ID	2e6bfd13-bfcd-4b90-bd66-1ce02da2a335	.homedepot.com	Session	Wed, 15 Nov 2023 22:53:52 ...
THD_MCC_TOKEN	eyJhbGciOiJaXiiLCJlbmMiOiBMjU2R0NNIn...	.homedepot.com	Wed, 15 Nov 2023 06:16:16 ...	Wed, 15 Nov 2023 06:01:16 ...
THD_NR	1	.homedepot.com	Thu, 16 Nov 2023 02:25:11 ...	Wed, 15 Nov 2023 22:53:52 ...
THD_PERSIST	""	.homedepot.com	Thu, 14 Nov 2024 22:53:52 ...	Wed, 15 Nov 2023 22:53:53 ...
THD_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 ...	Wed, 15 Nov 2023 22:53:52 ...
THD_SSUI_LOG_TOKEN	eyJhbGciOiJaXiiLCJlbmMiOiBMjU2R0NNIn...	.homedepot.com	Thu, 16 Nov 2023 09:46:56 ...	Wed, 15 Nov 2023 21:49:13 ...
THD_SSUI_TOKEN	eyJhbGciOiJaXiiLCJlbmMiOiBMjU2R0NNIn...	.homedepot.com	Thu, 16 Nov 2023 09:46:56 ...	Wed, 15 Nov 2023 21:49:13 ...
THD_TMXX_CACHE	zwC3GpRhJV8nKJhTnyrV74rWwUennaPAfe...	.homedepot.com	Thu, 16 Nov 2023 21:49:55 ...	Wed, 15 Nov 2023 22:53:52 ...
thda.m	280717822251400562802108988508122059...	.homedepot.com	Session	Wed, 15 Nov 2023 22:53:52 ...
thda.s	b2982b8c-9591-f7c5-ae40-f1dad8103f11	.homedepot.com	Session	Wed, 15 Nov 2023 22:53:52 ...
thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b8ac	.homedepot.com	Sat, 15 Nov 2025 02:25:12 G...	Wed, 15 Nov 2023 22:53:52 ...

However, the cookies in Local Storage persist (b2b-hf-dynamic-phone-number, customerConfiguration, QM, thd-membershipinformation, C12, C13, and THD_CART cookies in local storage (see 6[a] for full walkthrough), all containing the 0527F0C6... user ID, user email (C12), or user name (C13).

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

SiteMap - The Home Depot

https://www.homedepot.com/c/site_map

80%

Black Friday Savings Happening Now. End 11/29

THE HOME DEPOT

You're shopping

Longview

OPEN until 10 pm

Delivering to

75670

What can we help you find today?

My Ac...

Lists

Cart | 0 items

Store Finder

Truck & Tool Rental

For the Pro

Gift Cards

Credit Services

Track Order

Help

All Departments

Home Decor, Furniture & Kitchenware

DIY Projects & Ideas

Project Calculators

Installation & S

Catalog

Home / Sitemap

Sitemap - The Home Depot

Inspector

Console

Debugger

Network

Storage

Cache Storage

Cookies

Indexed DB

Local Storage

Session Storage

Key

Value

0427EECDDDF1CD740U

{ "numberOfServiceAccounts":0,"timestamp":1700086884182}

__paypal_storage__

{ "id":"uid_2a13e47951_mdu6mzk6mtu","__session__":{"guid":"uid_386976086f_mjm6mti6nte","created":1700089971146},"exp...

_meta_enrichmentService_user_failure

{ "value":"not found","expires":"2023-11-16T03:26:35.775Z"}

b2b-hf-dynamic-phone-number

{ "phoneNumber":"1-800-525-5000","shortCode":"78465","expiration":"2023-11-16T21:50:09.535Z","svocId":"0527F0C6FEA4E...

BTT_Collect

{ "value":"on","expires":"1700090635868"}

BTT_GUID_PV

{ "GUID":"531626447404975825","cartValDOY":"318","cartVal":"0","ajaxCartVal":"0","ajaxCartValDOY":318}

BTT_WCD_Collect

{ "value":"off","expires":"1700091797617"}

BTT_X0siD

{ "value":"541756187758760199","expires":"1700091797617"}

C12

{ "value":"z_customer1%40b.org","expiry":"Thu, 14 Nov 2024 23:04:08 GMT"}

C13

{ "value":"Z%20CUSTOMER","expiry":"Thu, 14 Nov 2024 23:04:08 GMT"}

customerConfiguration

{ "callCenterType":"ProOcc","chatEnabled":false,"eliteCallCenterNumber":"1-866-333-3551","eliteCallCenterSMSCode":"78465"...

deviceInfo1

{ "cpuCores":16,"deviceClassification":2,"webgl2Supported":true}

NRBA_SESSION

{ "value":"103b11e66fe499b3","inactiveAt":1700091878988,"expiresAt":1700099046500,"updatedAt":1700090078988,"session...

PXJ770cP7Y_px_fp

{ "PX31":"35.7501022554934","PX32":"451a844752c9e884ffcaa777b36bbe3b","PX274":"f3b598116ee105998d5d1abc84449cd...

O_INTER

{ "SI_ehszkP3JlwniF77":1700089997.998,"SI_cg97Lo3O9PalSmG":1700089998.006,"SI_2lVW226zFt4dVJ3":1700026824.821,"SI_c...

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Home Depot
Ex. 1009 - Page 174

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The screenshot shows the Home Depot website at the URL `https://www.homedepot.com/c/site_map`. The page features a top navigation bar with the Home Depot logo, a search bar, and links for account management. A "Black Friday Savings" banner is visible. The main content area displays "Sitemap - The Home Depot".

The Chrome DevTools Storage Inspector is open, showing the following data:

Storage Type	Key	Value
Cache Storage	NRBA_SESSION	{ "value": "103b11e66fe499b3", "inactiveAt": 1700091878988, "expiresAt": 1700099046500, "updatedAt": 1700090078988, "session..."
	PXJ770CP7Y_px_fp	{ "PX31": "35.7501022554934", "PX32": "451a844752c9e884ffcaa777b36bbe3b", "PX274": "f3b598116ee105998d5d1abc84d449c..."
Indexed DB	Q_INTER	{ "SI_elszkp3JlwnjF77": 1700089997.998, "SI_CG97Lo3Q9PaJsmG": 1700089998.006, "SI_2lVW226zF4dVJ3": 1700026824.821, "SI_C..."
	QM	{ "shouldLogResources": false, "s": "ca6fd6c3a3655f8b564f03af1e247b9c", "events": { "[]": 817, "v": "", "t": 1700084763838, "[]": 25, "v": "...
Local Storage	QSL_ActionSetHistory	{ "AS_78122939": 1700089997994, "AS_084Y1ruHbCTG5": 1700089997994, "AS_9FEOxCZBFdTE25D": 1700089997994, "AS_8909..."
	search_history	[{ "keyword": "tires", "keyword": "light bulbs", "keyword": "light bulb", "keyword": "LED bulb" }]
	simpleStorage	{ "cc.ConsumerSessionId": "0_04915afe-baab-4dbe-a09f-fc714484896e" }
	tgdtlm:63	{ "execution": 342, "parsing": 0, "request": { "timeToFirstByte": 49, "responseSize": 298, "telemetryServerToken": "SDFLmdfA6Hh+MgT..."
	thd3276851z-campaign	{ "value": "", "expires": "1700091797617" }
Session Storage	thd3276851z-campMedium	{ "value": "None", "expires": 1700091797617 }
	thd3276851z-campSource	{ "value": "homedepot.com", "expires": 1700091797617 }
	thd3276851z-datacenter	{ "value": "Default", "expires": "1700091797617" }
	thd-membershipInformation	{ "svocID": "0527F0C6FEA4E31D0S", "programTiers": [], "expireTime": 1700128209617 }
	THD_CART	{ "cart": { "promotionCode": "", "cartAction": "", "saveQuoteName": "", "userId": "0527F0C6FEA4E31D0S", "expressCheckout": false, "pa..."
	WORKFLOW	{ "createTime": "2023-11-15T23:04:09.225Z", "data": { "LOCALIZED_BY_STORE": "", "expireTime": 31536000000 }

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

0527F0C6		+ ↺
Key	Value	
b2b-hf-dynamic-phone-num...	{ "phoneNumber": "1-800-525-5000", "shortCode": "78465", "expiration": "2023-11-16T21:50:09.535Z", "svocId": "0527F0C6FEA4E31D05" }	
customerConfiguration	{ "callCenterType": "ProOcc", "chatEnabled": false, "eliteCallCenterNumber": "1-866-333-3551", "eliteCallCenterSMSCode": "78465", "expira...	
QM	{ "shouldLogResources": false, "s": "ca6fd6c3a3655f8b564f03af1e247b9c", "events": [{ "i": 817, "v": "", "t": 1700084763838 }, { "i": -25, "v": "Cookie..	
thd-membershipInformation	{ "svocID": "0527F0C6FEA4E31D05", "programTiers": [], "expireTime": 1700128209617 }	

Thus, the Accused Instrumentalities determine that the current user who is not logged in may be the same user who was previously logged in based at least in part on, for example:

- The presence of any of the Local Storage cookies (User ID, C12, C13, checkoutPromptsDisplayInfo, QM, THD_CART, b2b-hf-dynamic-phone-number, customerConfiguration, or thd-membershipinformation) that continue to identify a user after logging out and the absence of a network resource request associated with of any of the Cookie Storage cookies that store a user ID (THD_USER, THD_PERSIST, or THD_CUSTOMER);
- The presence of a network resource request associated with a Session Storage cookie (dsPersistedStorage) that contains a device ID (reflected from thda.u) and the absence of a network resource request associated with of any of the Cookie Storage cookies that store a user ID (THD_USER, THD_PERSIST, or THD_CUSTOMER);
- The presence of a network resource request associated with a Session Storage cookie (dsPersistedStorage), or a Cookie Storage cookie (thda.u), that contains a device ID (reflected from thda.u) and the absence of any of the Local Storage cookies (User ID, C12, C13, checkoutPromptsDisplayInfo, QM, THD_CART, b2b-hf-dynamic-phone-number, customerConfiguration, or thd-membershipinformation) if those Local Storage cookies have been overridden by another user's login.

Alternatively, a cookie stored in the Local Storage or Session Storage areas may be considered the “second” cookie and a cookie stored in the Cookie storage area may be considered the “first” cookie.

Determinations regarding user tracking may also be made by the Accused Instrumentalities based at least in part on the presence and absence described above. For example, a user may have previously logged in to a device that the Accused Instrumentalities associated with that user, for example by using a cookie that identifies a user (e.g., the THD_USER cookie). The Accused Instrumentalities may have also identified that device, before, while, and/or after a user logged in to the device, by using a cookie that identifies the device (e.g., the thda.u cookie). After the user logs out, and visits homedepot.com as a logged-out user on the same device, the Accused Instrumentalities may identify that same device by, for example, identifying a cookie that identifies the device, or by identifying a cookie stored in Local Storage that continues to contain the previously-logged in user's user ID value (e.g. the C12 cookie). The

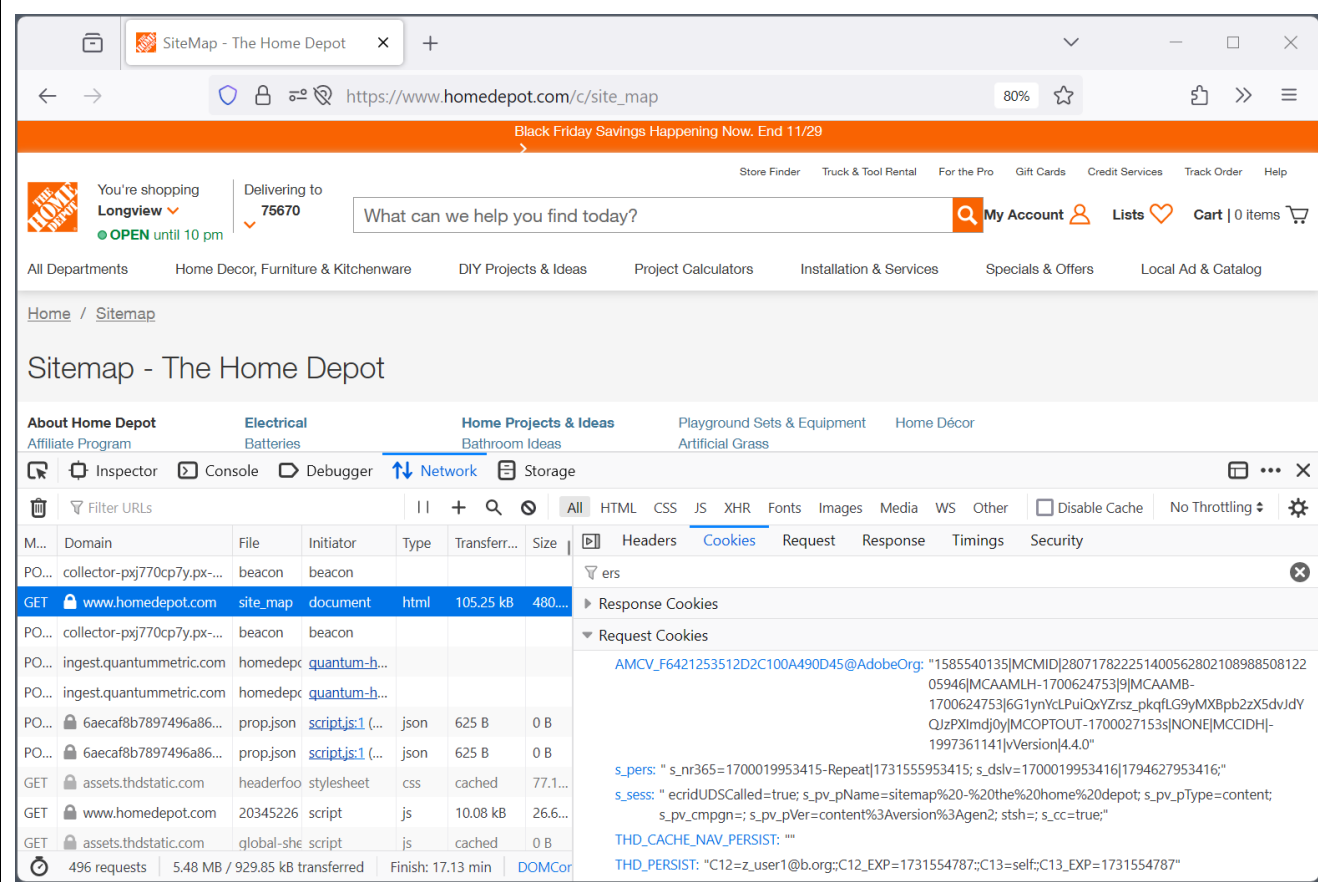
Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	Accused Instrumentalities may also note that the device is currently sending network requests that do not include any cookies that identify the previously-logged in user (e.g., the device is not sending a request that includes the THD_USER cookie when requesting homedepot.com). The Accused Instrumentalities may then determine that the device may be in use by the user identified by the previously-sent THD_USER cookie. If more than one THD_USER cookie value has been sent by the device (e.g., in the examples in 6[c] and 6[d] above where the user with a personal account sends a THD_USER cookie with a user ID value and the “Z Customer” user with a Pro Account sends a different THD_CUSTOMER cookie with a different user ID value), then the Accused Instrumentalities may make a determination regarding whether the current user is one of the previously-logged in users. If only one user ID value has ever been sent by the device, then the Accused Instrumentalities may be more confident that the single previously-logged in user is continuing to use the same device, even though the user is not logged in. 2. Determining whether to request certain cookies. The Accused Instrumentalities make different determinations in situations when the user is logged in from when the user is not logged in. The Accused Instrumentalities may make such determinations, for example, whether to attribute browsing behavior to a user for tracking accuracy. For example, when the user is logged in, the THD_USER and THD_USER_SESSION cookies are stored in the Cookies storage area of the client device, and the browser sends a network request that included those cookies and that included a THD_PERSIST cookie having a value that included the user’s email address (login) that is also stored in the C12 cookie.
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Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

[illegible]

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

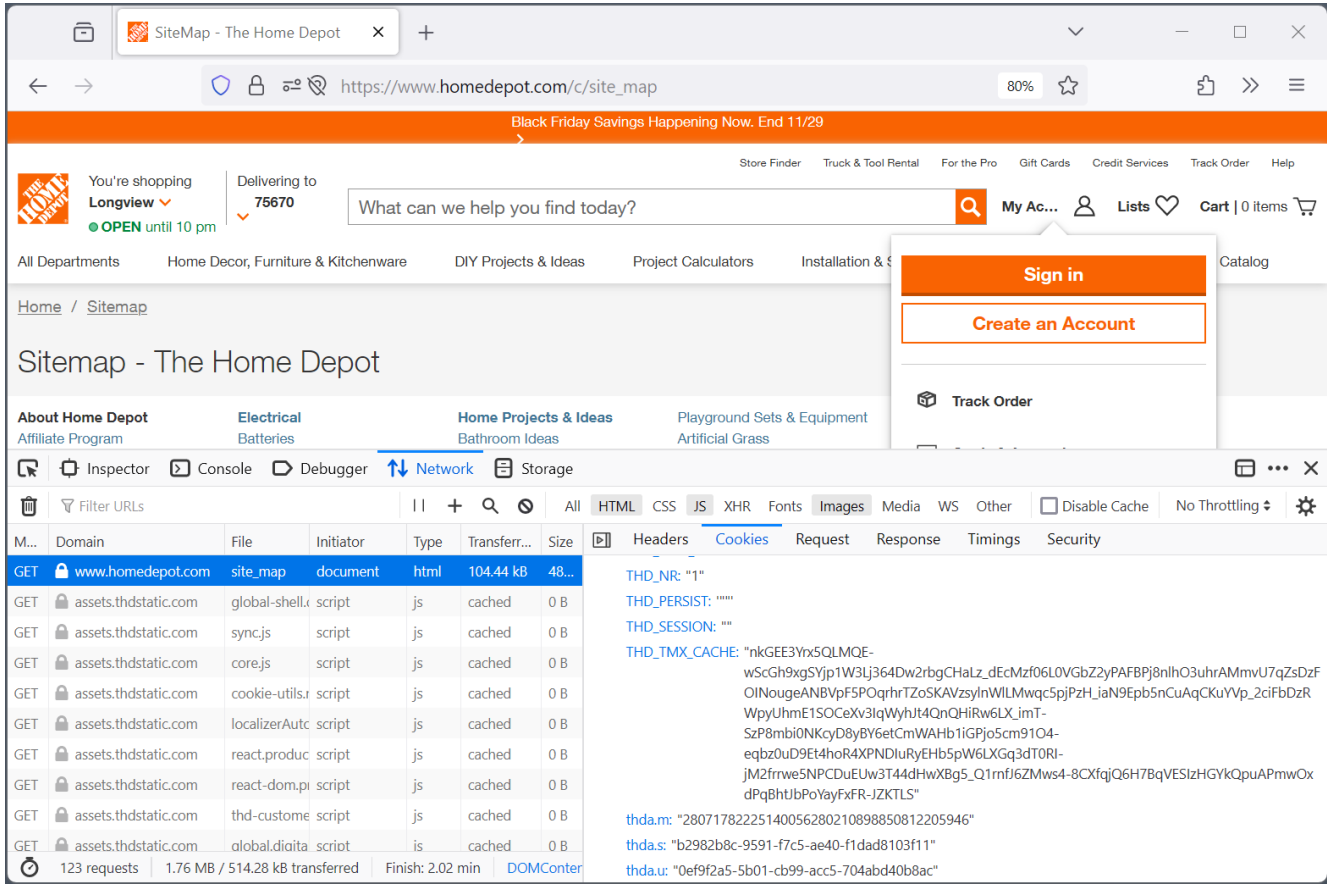


In contrast, when the user was not logged in, the THD_USER and THD_USER_SESSION cookies were not stored at the client device, and the browser sent a network request that did not include a THD_USER or THD_USER_SESSION cookie, and the browser sent a network request with a THD_PERSIST cookie having an empty value.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The screenshot shows the Home Depot website's Sitemap page. The top navigation bar includes the Home Depot logo, a search bar, and links for 'Black Friday Savings', 'Site Map', and 'What can we help you find today?'. A 'Sign in' button is prominently displayed in the top right. The main content area is titled 'Sitemap - The Home Depot' and lists various product categories such as 'About Home Depot', 'Electrical', 'Home Projects & Ideas', and 'Playground Sets & Equipment'. A 'Storage' link is visible in the bottom navigation bar.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823



3. Determining whether the THD_PERSIST cookie should include a user's email address.

The Accused Instrumentalities makes different determinations in situations when the user is logged in from when the user is not logged in. The Accused Instrumentalities may make such determinations, for example, whether to attribute browsing behavior to a user for tracking accuracy.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Based at least in part on (1) the absence of a network request associated with a cookie that identifies a logged-in user (such as the THD_USER cookie), and (2) the presence of a network request [a] associated with a cookie that identifies a device (such as the dsPersistedStorage cookie stored in Session Storage), or [b] associated with a previously-logged in user (such as THD_CART, checkoutPromptsDisplayInfo, C12, C13, the cookie with the key that is the value of a user ID stored in a previously-logged in user's THD_USER cookie, QM, thd-membershipinformation, b2b-hf-dynamic-phone-number, or customerConfiguration stored in Local Storage), the Accused Instrumentalities determine that the THD_PERSIST cookie should omit the user's email address (login).

The screenshot shows the Home Depot website's Sitemap page. The browser's developer console is open, displaying the 'Storage' tab. The 'Cookies' section shows a table of cookies for the domain https://www.homedepot.com. The 'Local Storage' section shows a table of local storage items. The 'Session Storage' section shows a table of session storage items.

Name	Value	Domain	Expires / Max-Age	Last Accessed
THD_LOCALIZER	%257B%2522WORKFLOW%2522%25...	.homedepot.com	Thu, 14 Nov 2024 20:21:23 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_MCC_ID	2e6bfd13-bfcd-4b90-bd66-1ce02da2...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
THD_MCC_TOKEN	eyJhbGciOiJIaXilCllbmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 06:16:16 GMT	Wed, 15 Nov 2023 06:01:16 GMT
THD_NR	1	.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_PERSIST	""	.homedepot.com	Thu, 14 Nov 2024 20:40:18 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT	Wed, 15 Nov 2023 20:40:18 GMT
THD_SSUI_LOG_TOKEN	eyJhbGciOiJIaXilCllbmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT	Wed, 15 Nov 2023 03:26:26 GMT
THD_SSUI_TOKEN	eyJhbGciOiJIaXilCllbmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT	Wed, 15 Nov 2023 07:42:29 GMT
THD_TM_X_CACHE	nkGEE3Yx5QLMQE-wScGh9xgSYjp1...	.homedepot.com	Thu, 16 Nov 2023 03:26:27 GMT	Wed, 15 Nov 2023 20:40:18 GMT
thda.m	280717822251400562802108988508...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
thda.s	b2982b8c-9591-f7c5-ae40-f1dad810...	.homedepot.com	Session	Wed, 15 Nov 2023 20:40:18 GMT
thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT	Wed, 15 Nov 2023 20:40:18 GMT

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Enlarged from above:

THD_PERSIST	""	.homedepot.com	Thu, 14 Nov 2024 20:40:18 GMT
THD_SESSION		.homedepot.com	Thu, 16 Nov 2023 02:25:11 GMT
THD_SSUI_LOG_TOKEN	eyJhbGciOiJkaXIiLCJlbmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT
THD_SSUI_TOKEN	eyJhbGciOiJkaXIiLCJlbmMiOiJBMjU2R...	.homedepot.com	Wed, 15 Nov 2023 15:23:07 GMT
THD_TMX_CACHE	nkGEE3Yrx5QLMQE-wScGh9xgSYjp1...	.homedepot.com	Thu, 16 Nov 2023 03:26:27 GMT
thda.m	280717822251400562802108988508...	.homedepot.com	Session
thda.s	b2982b8c-9591-f7c5-ae40-f1dad810...	.homedepot.com	Session
thda.u	0ef9f2a5-5b01-cb99-acc5-704abd40b...	.homedepot.com	Sat, 15 Nov 2025 02:25:12 GMT

In contrast, the Accused Instrumentalities determine that the THD_PERSIST cookie should include the user's email address when the THD_USER or THD_CUSTOMER cookie is present.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

The screenshot shows a web browser with the Home Depot Sitemap page. The browser's developer tools are open, displaying the Network tab. The selected request is a GET request to `www.homedepot.com/site_map`, which is a document of type `html` with a size of 105.11 kB and a response size of 480.15 kB. The right pane shows the response headers, including `THD_NR: 1`, `THD_PERSIST: "C12=z_user1@b.org; C12_EXP=1731554787; C13=self; C13_EXP=1731554787"`, `THD_SESSION: ""`, and `THD_TMX_CACHE: "nkGEE3Yrx5QLMQE-w5cGh9xgSYjp1W3Lj364Dw2rbgC..."`.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

	Enlarged from above: <pre>THD_PERSIST: "C12=z_user1@b.org;; C12_EXP=1731554787;;C13=self;; C13_EXP=1731554787" THD_SESSION: ""</pre> 4. Determining Storage of a user ID or device ID. Similarly, the Accused Instrumentalities determine that the dsPersistedStorage Session Storage cookie should store the value of the thda.u cookie based at least in part on the presence of a network request associated with the dsPersistedStorage cookie and based at least in part on the absence of a network request associated with the THD_USER cookie in order to attribute browsing behavior to a user for tracking accuracy. In effect, this causes the value of the dsPersistedStorage cookie to reflect a user ID when a user is logged in, and dsPersistedStorage to reflect a device ID when a user is logged out. For example, the dsPersistedStorage cookie shows a device ID corresponding to the value of the thda.u cookie when there is no network request associated with a THD_USER cookie.
--	--

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

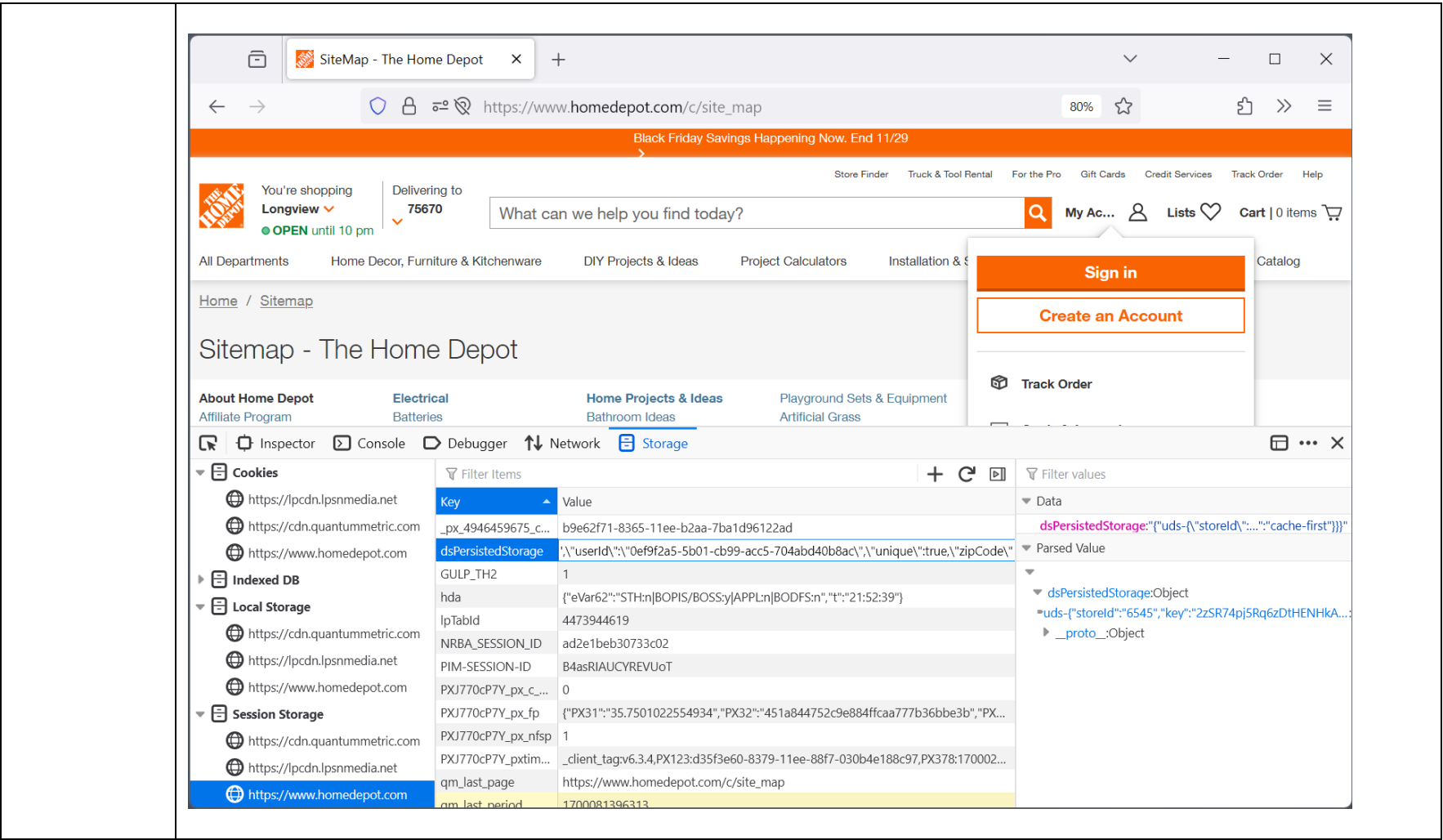
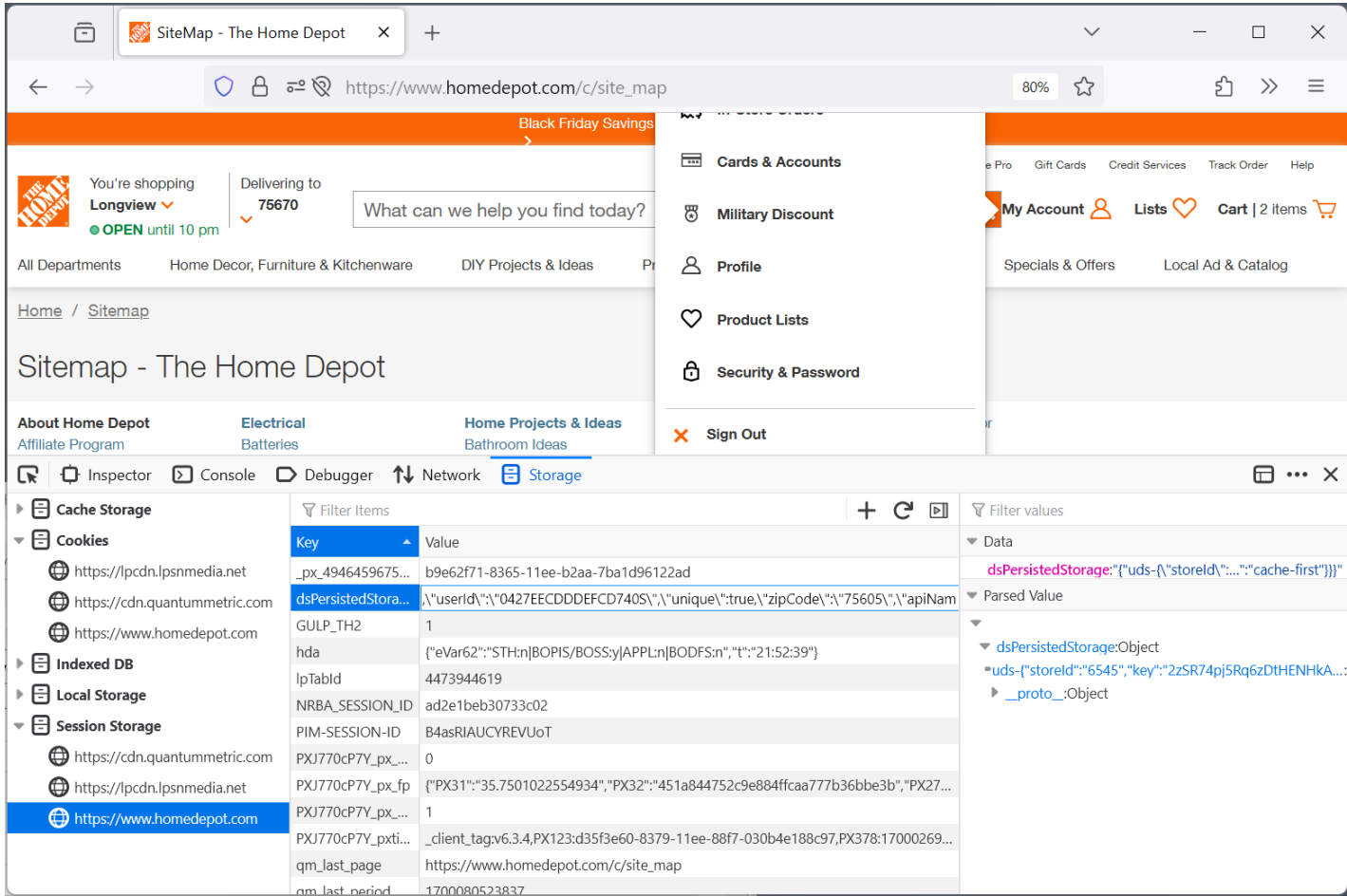


Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

When there is a network request associated with a THD_USER cookie, the dsPersistedStorage cookie shows a user ID corresponding to the value of the THD_USER cookie.



As an additional example, based at least in part on the presence and of cookies in the Cookies storage area as described above, and the absence of cookies in the Local Storage area, the Accused Instrumentalities make determinations regarding cookies to save in Local Storage. For example, if the Local Storage area is empty, and the Cookies storage area has cookies for a logged in user, the Accused Instrumentalities determine that the Local Storage

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

area should be populated with cookies, including cookies that contain the user's ID value (full walkthrough in 6[b]). As another example, if a user attempts to view their cart, Home Depot determines whether the user can view the items in their cart due to the presence of the THD_USER cookie (the first cookie) and the absence of the THD_CART cookie (the second cookie). If Home Depot finds the THD_USER cookie (*see*, for example, THD_USER cookie verification shown in element 6[a]) but does not find the THD_CART cookie, Home Depot servers will allow the user to view their cart page without signing in again, but will re-download data to create the THD_CART cookie. For example, in the screenshots below, the THD_CART cookie is removed to cause it to be absent, which causes Home Depot servers to download the THD_CART cookie to recreate the user's cart.

In the screenshots below, the THD_CART cookie is present in local storage.

Storage	
▼ Local Storage	
https://www.homedepot.com/	ak_a
https://customer.homedepot.com/	THD_CART
https://h.online-metrix.net/	thd3276851z-0

The THD_CART cookie is then removed from local storage.

Storage	
▼ Local Storage	
https://www.homedepot.com/	ak_a
https://h.online-metrix.net/	thd3276851z-0
https://customer.homedepot.com/	ed73f20edbf2b73

During a new network request, Home Depot servers request the THD_CART cookie from local storage of the client.

Name	
/mcc-cart/v2	
cart?storeId=4701&anchor=205652219%2C304616955&key=aGAQFG4j6QtVTSWq...	
/multianchordynamicrecs	
Cart?_=1683064489882&	
/mcc-cart/v2	
cart?storeId=4701&anchor=205652219%2C304616955&key=aGAQFG4j6QtVTSWq...	
/multianchordynamicrecs	

× Headers Payload Preview Response Initiator Timing Cookies						
▼ General						
Request URL: https://www.homedepot.com/mcc-cart/v2/Cart?_=1683064489882&						
Request Method: GET						
Status Code: 200						
Remote Address: 104.97.45.184:443						
Referrer Policy: strict-origin-when-cross-origin						

Because the THD_CART cookie is not present, the THD_USER cookie is used as one input in order for the client to request that the Home Depot servers re-create the THD_CART cookie.

Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

Name	Headers	Payload	Preview	Response
assets.thdstatic.com/images/v1/brand-logos	PIM-SESSION-ID			XgeDVILXY
☐ Cart?_=1690304194361&/mcc-cart/v2	ftr_ncd			6
bat.svg	THD_USER			"eyJjdXN0b
assets.homedepot-static.com/hf/images/svg	THD_USER_SESSION			eyJJzloiMD
	THD_TRANSACTION			aebd434c-3
	WORKFLOW			LOCALIZE

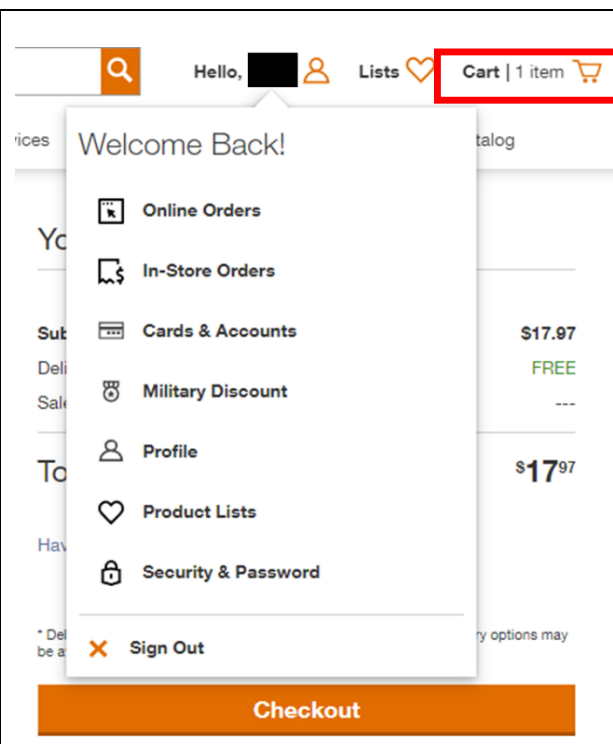
The THD_CART cookie is then re-created.

Name	Headers	Payload	Preview	Response	Initiator	Ti
assets.thdstatic.com/images/v1/brand-logos						
☐ Cart?_=1690304194361&/mcc-cart/v2						
bat.svg						
assets.homedepot-static.com/hf/images/svg						
lifeproof.png						
assets.thdstatic.com/images/v1/brand-logos						
lifeproof_v1.svg						
assets.thdstatic.com/images/v1/brand-logos						
glacier-bay.png						

```
1 {
  "CartModel": {
    "userId": "0514",
    "orderId": "HG",
    "merchandiseItemsSubTotal": "17.97",
    "merchandiseItemsGrandTotal": "17.97",
    "cartTotal": "17.97",
    "currency": "USD",
    "totalItemCount": "1",
    "localStoreId": "4007",
    "expressCheckout": false,
    "paypalExpress": true,
    "automatedOrderCompletion": "Y",
    "itemModels": [
      {
        "itemId": "304616955",
      }
    ]
  }
}
```

In the user interface, the cart appears with the items that were present.

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In contrast, if Home Depot does not find the THD_USER cookie, Home Depot servers will not allow the user to view their cart. For example, if the THD_USER cookie is removed, a user attempting to view their cart will be met with only a request to sign in:

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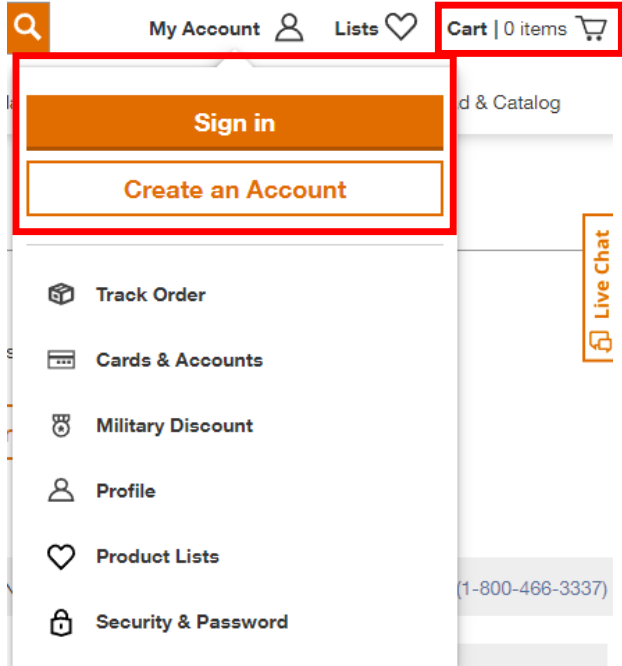
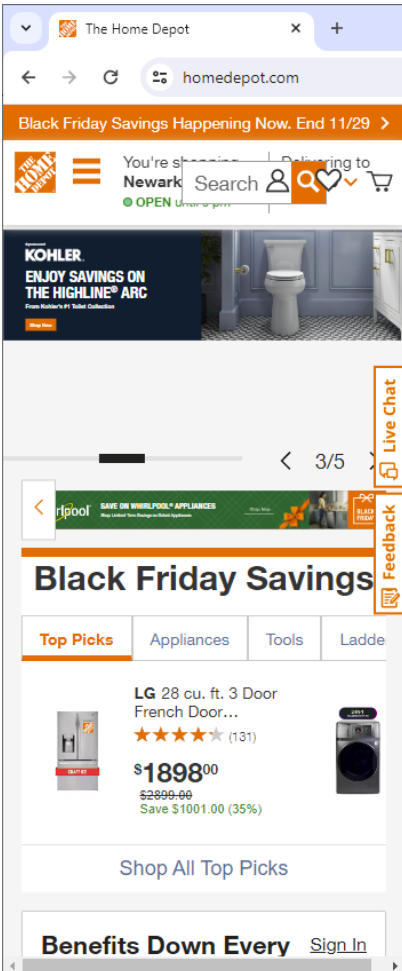
	 An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.
7. The method of claim 6 wherein the client device is identified by a server in a domain	Home Depot performs the method of claim 6, wherein the client device is identified by a server in a domain different from a server that caused the two different types of cookies to be stored to the client device during the first and second previous network sessions. For example, Home Depot contracts with third parties to allow cookies to be served on a customer's device. When a customer, using a client device, visits homedepot.com, the Accused Instrumentalities store cookies from bing.com, tagdelivery.com, agkn.com, doubleclick.net, and google.com, among others. These cookies allow a server in a different domain to identify the client device.

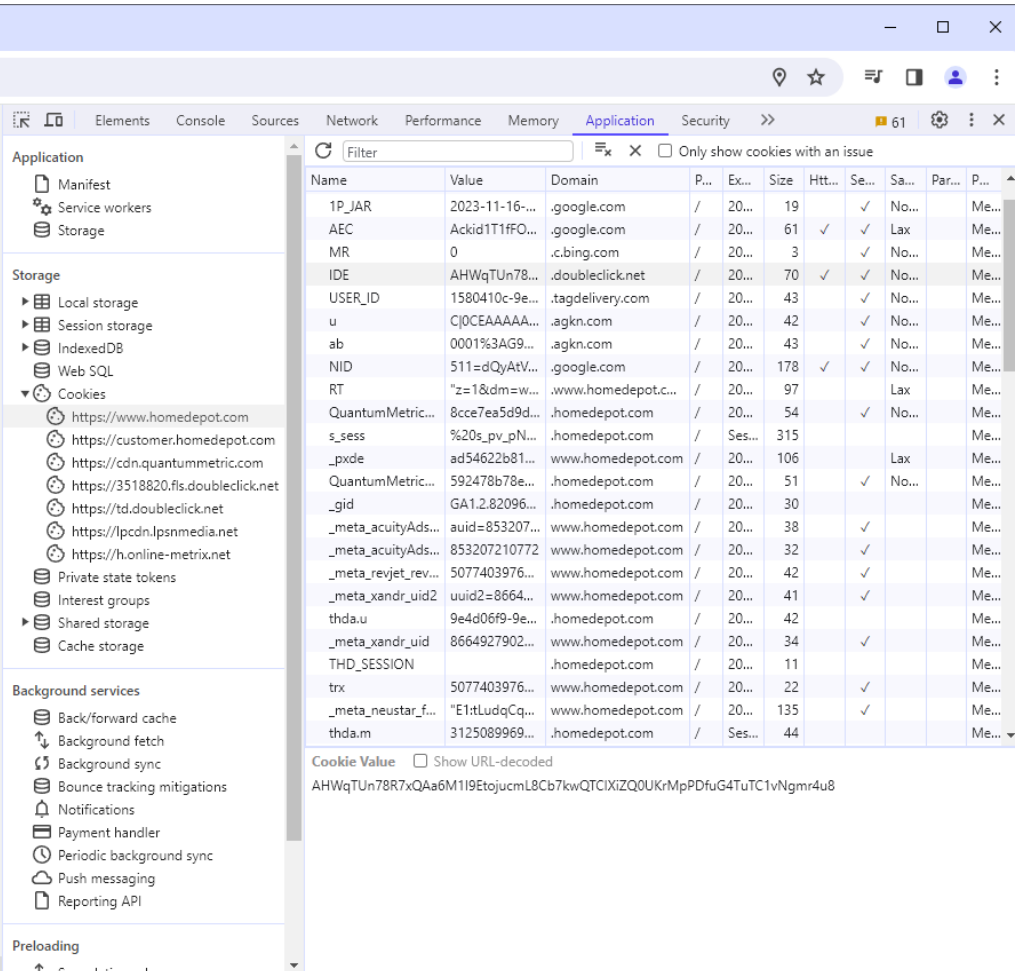
Exhibit 1 - Claim Chart for U.S. Patent No. 10,594,823

different from a server that caused the two different types of cookies to be stored to the client device during the first and second previous network sessions.



www.homedepot.com

For example, the cookie stored by the doubleclick.net server is an IDE cookie, which Google uses for advertising, including “limiting the number of times an ad is shown to a user,” which necessarily requires identification of a client device.



Name	Value	Domain	P...	Ex...	Size	Http...	Se...	Sa...	Par...	P...
1P_JAR	2023-11-16...	.google.com	/	20...	19		✓	No...		Me...
AEC	Ackid1T1fFO...	.google.com	/	20...	61	✓	✓	Lax		Me...
MR	0	.c.bing.com	/	20...	3		✓	No...		Me...
IDE	AHWqTUn78...	.doubleclick.net	/	20...	70	✓	✓	No...		Me...
USER_ID	1580410c-9e...	.tagdelivery.com	/	20...	43		✓	No...		Me...
u	Cj0CEAAAAA...	.agkn.com	/	20...	42		✓	No...		Me...
ab	0001%3AG9...	.agkn.com	/	20...	43		✓	No...		Me...
NID	511=dQyAtV...	.google.com	/	20...	178	✓	✓	No...		Me...
RT	*z=1&dm=w...	.www.homedepot.c...	/	20...	97			Lax		Me...
QuantumMetric...	8cce7ea5d9d...	.homedepot.com	/	20...	54		✓	No...		Me...
s_sess	%20s_pv_pN...	.homedepot.com	/	Ses...	315					Me...
_pxde	ad54622b81...	.www.homedepot.com	/	20...	106			Lax		Me...
QuantumMetric...	592478b78e...	.homedepot.com	/	20...	51		✓	No...		Me...
_gid	GA1.2.82096...	.homedepot.com	/	20...	30					Me...
_meta_acuityAds...	avid=853207...	.www.homedepot.com	/	20...	38		✓			Me...
_meta_acuityAds...	853207210772	.www.homedepot.com	/	20...	32		✓			Me...
_meta_revjet_rev...	5077403976...	.www.homedepot.com	/	20...	42		✓			Me...
_meta_xandr_uid2	uidid2=8664...	.www.homedepot.com	/	20...	41		✓			Me...
thda.u	9e4d06f9-9e...	.homedepot.com	/	20...	42					Me...
_meta_xandr_uid	8664927902...	.www.homedepot.com	/	20...	34		✓			Me...
THD_SESSION		.homedepot.com	/	20...	11					Me...
trx	5077403976...	.www.homedepot.com	/	20...	22		✓			Me...
_meta_neustar_f...	*E1tLudqCq...	.www.homedepot.com	/	20...	135		✓			Me...
thda.m	3125089969...	.homedepot.com	/	Ses...	44					Me...

Cookie Value ☐ Show URL-decoded

AHWqTUn78R7xQAa6M119EtojuclmL8Cb7kwQTCIXIZQ0UKrMpPDfuG4TuTC1vNgmr4u8

Our advertising and measurement cookies

To help our partners manage their advertising and websites, we offer many products, including AdSense, Google Ads, Google Analytics, and a range of products within the Google Marketing Platform. When users visit a page or see an ad that uses one of these products, either on Google services or on other sites and apps, various cookies may be sent to their browser.

These may be set from a few different domains, including google.com, doubleclick.net, googlesyndication.com, or googleadservices.com, or the domain of our partners' sites. Some of our advertising and measurement products enable our partners to use other services in conjunction with ours (like an ad measurement and reporting service), and these services may send their own cookies to your browser. These cookies will be set from their domains.

The cookie information on this site is made available to assist with the use of Google's ad products and reflects cookies that can be associated with these products and may be sent to a user's browser. Cookie purposes reflect the range of products and features supported in our ad products, but individual cookies may rely on only a subset of purposes, depending on implementation of the product. Although the cookies listed here are those associated with our advertising and measurement products, you can find more details at [How Google Uses Cookies](#).

Our advertising and measurement cookies. Available at <https://business.safety.google/adscookies/>

Advertising - Google uses cookies for advertising, including serving and rendering ads, personalizing ads (depending on your ad settings at [g.co/adsettings](#)), limiting the number of times an ad is shown to a user, muting ads you have chosen to stop seeing, and measuring the effectiveness of ads.

Our advertising and measurement cookies. Available at <https://business.safety.google/adscookies/>

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IDE

Advertising

Campaign Manager,

Display & Video 360,

Google Ad Manager,

Google Analytics,

Search Ads 360

13 months EEA UK /

24 months elsewhere

doubleclick.net

Our advertising and measurement cookies. Available at <https://business.safety.google/adscookies/>

As another example, the cookie stored by Microsoft’s bing.com server stores a MUID, which Microsoft uses for identifying “unique web browsers,” which is an identification of a client device.

What cookies does Clarity set?

Name	Purpose	Value Passed
_clk	Persists the Clarity User ID and preferences, unique to that site is attributed to the same user ID.	String
_clsk	Connects multiple page views by a user into a single Clarity session recording.	String
CLID	Identifies the first-time Clarity saw this user on any site using Clarity.	String
ANONCHK	Indicates whether MUID is transferred to ANID, a cookie used for advertising. Clarity doesn't use ANID and so this is always set to 0.	Flag
MR	Indicates whether to refresh MUID.	Flag
MUID	Identifies unique web browsers visiting Microsoft sites. These cookies are used for advertising, site analytics, and other operational purposes.	GUID
SM	Used in synchronizing the MUID across Microsoft domains.	Character Flags

Cookie List. Published 5/10/2023. Available at <https://learn.microsoft.com/en-us/clarity/setup-and-installation/cookie-list>

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	An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.
8. The method of claim 6 wherein the client device is identifiable based at least in part on a presence of either one of the first cookie and the second cookie in the respective first and second client device browser storage areas.	Home Depot performs the method of claim 6, wherein the client device is identifiable based at least in part on a presence of either one of the first cookie and the second cookie in the respective first and second client device browser storage areas. As described in element 6[a], the “first” cookie can be, for example, any cookie in a first one of three storage areas (Cookie storage, Local Storage, and Session Storage). The “second” cookie can be, for example, any cookie in any of the other two storage areas. As further explained above, the “Cookie” browser storage area stores cookies such as “thda.u,” “THD_USER,” “THD_USER_SESSION,” “THD_PERSIST,” and “THD_CUSTOMER.” The “Local Storage” browser storage area stores cookies such as “THD_CART”, User ID, “C12”, “C13”, “thd-membershipinformation,” “b2b-hf-dynamic-phone-number,” “customerConfiguration,” QM, and “gpc.” The “Session Storage” browser storage area stores cookies such as “dsPersistedStorage.” For example, the client device may be identifiable based at least in part on a presence of a first cookie that contains a device ID, such as the thda.u cookie stored in Cookie storage. The client device is also identifiable based at least in part on a presence of a second cookie such as a dsPersistedStorage cookie in Session Storage when it contains a device ID. (see 6[a] for detailed analysis). As another example, as a user’s ID becomes linked with a device ID, a client device may become identifiable by a cookie containing a user ID such as a THD_USER cookie in Local Storage. Such a cookie may be considered either a first or second cookie and combined with any other cookie in a different browser storage area such as the thda.u or the dsPersistedStorage cookies identified above. An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.
10. The method of claim 6 wherein in response to	Home Depot performs the method of claim 6, wherein in response to the performed determination, the one or more processors are configured to cause a third cookie to be stored at the client device, wherein the third cookie is one of the first type and the second type. Several determinations may be performed by the Accused Instrumentalities as described in 6[e]:

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the performed determination, further comprising causing a third cookie to be stored at the client device, wherein the third cookie is one of the first type and the second type.	1. Determining whether a current user who is not logged in is the same user who was previously logged in. 2. Determining whether to request certain cookies. 3. Determining whether the THD_PERSIST cookie should include a user's email address. 4. Determining Storage of a user ID or device ID. As one example, in response to the performed determination of example 1, the one or more processors are configured to cause THD_PERSIST to become blank when a user logs out in order to remove the user's email from the cookie. As another example, in response to the performed determination of example 4, the one or more processors are configured to cause dsPersistedStorage to store the device ID of thda.u rather than the user ID of THD_USER when a user logs out in order to track browsing by device rather than user. In addition, the Accused Instrumentalities also store cookies from bing.com, tagdelivery.com, agkn.com, doubleclick.net, and google.com, among others. These cookies allow a server in a different domain to identify the client device. In response to the performed determination, the one or more processors are configured to cause a third cookie to be stored at the client device, wherein the third cookie is of the first type – that is, stored in the Cookies area of the browser.
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The screenshot shows a web browser window displaying the Home Depot website. The top navigation bar includes the Home Depot logo and search functionality. Below the navigation bar, there are several promotional banners, including one for "Black Friday Savings Happening Now. End 11/29". The main content area features a large banner for "KOHLER ENJOY SAVINGS ON THE HIGHLIGHT™ ARC" and a section titled "Black Friday Savings" with tabs for "Top Picks", "Appliances", "Tools", and "Ladder". A product listing for "LG 28 cu. ft. 3 Door French Door..." is visible, priced at \$1898.00.

The browser's developer tools are open, specifically the "Application" tab, which shows a list of cookies. The cookies include session IDs, user IDs, and other tracking information. The "Cookie Value" column shows the decoded values of the cookies.

Name	Value	Domain	P...	Ex...	Size	Htt...	Se...	Sa...	Par...	P...
1P_JAR	2023-11-16...	.google.com	/	20...	19		✓	No...		Me...
AEC	Ackid1T1fFO...	.google.com	/	20...	61	✓	✓	Lax		Me...
MR	0	.bing.com	/	20...	3		✓	No...		Me...
IDF	AHWqTU78...	.doubleclick.net	/	20...	70	✓	✓	No...		Me...
USER_ID	1580410c-9e...	.tagdelivery.com	/	20...	43		✓	No...		Me...
u	CjOCEAAAAA...	.agkn.com	/	20...	42		✓	No...		Me...
ab	0001%3AG9...	.agkn.com	/	20...	43		✓	No...		Me...
NID	511=dQyAtV...	.google.com	/	20...	178	✓	✓	No...		Me...
RT	"z=1&dm=w...	.www.homedepot.c...	/	20...	97			Lax		Me...
QuantumMetric...	8cce7ea5d9d...	.homedepot.com	/	20...	54		✓	No...		Me...
s_sess	%20s_pv_pN...	.homedepot.com	/	Ses...	315					Me...
_pxde	ad54622b81...	.www.homedepot.com	/	20...	106			Lax		Me...
QuantumMetric...	592478b78e...	.homedepot.com	/	20...	51		✓	No...		Me...
_gid	GA1.2.82096...	.homedepot.com	/	20...	30					Me...
_meta_acuityAds...	aid=853207...	.www.homedepot.com	/	20...	38		✓			Me...
_meta_acuityAds...	853207210772	.www.homedepot.com	/	20...	32		✓			Me...
_meta_revjet_rev...	5077403976...	.www.homedepot.com	/	20...	42		✓			Me...
_meta_xandr_uid2	uid2=8664...	.www.homedepot.com	/	20...	41		✓			Me...
thda.u	9e4d06f9-9e...	.homedepot.com	/	20...	42					Me...
_meta_xandr_uid	8664927902...	.www.homedepot.com	/	20...	34		✓			Me...
THD_SESSION		.homedepot.com	/	20...	11					Me...
trx	5077403976...	.www.homedepot.com	/	20...	22		✓			Me...
_meta_neustar_f...	"E1:tLudgCq...	.www.homedepot.com	/	20...	135		✓			Me...
thda.m	3125089969...	.homedepot.com	/	Ses...	44					Me...

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An analysis of source code may be necessary to fully and accurately describe the functionality of the Accused Instrumentalities with respect to this limitation and, accordingly, Plaintiff reserves the right to supplement these infringement contentions once such information is made available to Plaintiff.