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 17

18 **UNITED STATES DISTRICT COURT**  
 19 **NORTHERN DISTRICT OF CALIFORNIA**

20  
 21 RAZDOG HOLDINGS LLC,  
 Plaintiff,  
 22  
 vs.  
 23 TWITCH INTERACTIVE, INC.  
 24  
 Defendants.  
 25

Case No. 5:24-CV-3638  
**COMPLAINT**  
**DEMAND FOR JURY TRIAL**

1  
2 Plaintiff RazDog Holdings LLC (“RazDog”) alleges as follows for its patent infringement  
3 Complaint against Defendant Twitch Interactive, Inc. (“Twitch” or “Defendant”), concerning  
4 Twitch’s infringement of RazDog’s patents by providing website carousels that allow access to  
5 real-time media content.

6 **INTRODUCTION**

7 1. RazDog’s founders saw an opportunity for companies to present content to users  
8 over the Internet in a new way. They achieved their vision by developing a software solution that  
9 allowed users to navigate between content received from various sources without needing to leave  
10 a single webpage.

11 2. In furtherance of its objectives, RazDog created a suite of software products that,  
12 on the front end, provided a graphical user interface with the intuitiveness and attractiveness of  
13 swiping on a smartphone (*i.e.*, CloudMotion) while also providing a flexible content management  
14 system on the backend (*i.e.*, CloudSource).

15  
16 **RazDog RD CloudMotion™ Technology**

17 Patent pending. The only solution that lets all your users navigate any web-  
18 enabled and cloud-based content, including heavy lifting business  
19 applications using fun and exciting RazDog swiping technology. RazDog  
20 RD CloudMotion™ Technology helps keep users on your website or web  
21 enabled applications up to twice as long on average. Your users will  
22 navigate deeper into your website or content containing RazDog software.

23 **RazDog RD CloudSource™ Content Management Software**

24 Integrated CMS solution features deep-dive data tracking and reporting.  
25 Transforms control, navigation and analysis of all your Internet, intranet,  
26 and cloud-based content, from web pages to heavy lifting business  
27 applications. Includes new RD CloudMotion™ swiping technology.  
28 Customers will navigate deeper into your content and stay on your website  
longer using RazDog RD CloudSource™



**RazDog  
Success  
Stories**

3. RazDog’s CloudMotion and CloudSource software provided a smartphone-like  
experience on web browsers—complete with fully swipe-able content deployable by a server to  
any user device with a browser and Internet access. The software allowed users to swipe between  
content received in real time from multiple sources using a single sliding interface.

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4. Unlike previous swiping technologies that required a plug-in or were resident on a local device (such as a phone with a touch screen), RazDog’s solution worked remotely with any web browser. It was deployable through a server (or device acting as a server) and was usable on a variety of devices, including, for example, PCs, desktops, laptops, and smartphones. Because the software did not require businesses to redesign existing applications or content, it allowed for simple integration into existing systems. Moreover, by providing an interface that aggregated multiple content sources and applications, RazDog was able to provide businesses with comprehensive data analytics.

5. RazDog had several early successes, such as promising partnerships with well-established companies. For instance, RazDog partnered with HP through the HP Alliance ONE Partner Program. HP provided training on RazDog’s platform to sales representatives and launched a phone marketing program. Additionally, IBM, Cisco, Publicis, and several smaller companies partnered with RazDog and agreed to offer RazDog’s solutions to their clients.

6. In April 2012, Microsoft invited RazDog to participate in an exclusive technology exposition called Channel Link. RazDog was awarded one of only eight Microsoft-sponsored slots.

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**Microsoft** **STREAMONE**  
*Microsoft Partner Marketing Opportunity!*

Valued Vendor Partners,

Microsoft is funding Channel Development Jumpstart packages for a limited number of Microsoft partners to help them launch their solutions on StreamOne and attract new channel partners. I wanted to reach out to you to determine your eligibility for this offer as I think it would provide some great visibility if you qualify.

**CHANNEL LINK** BRINGING YOU TOGETHER. BETTER.  
2012

***Congratulations StreamOne partners!!!***

Your rapid response landed you one of the 8 Microsoft sponsored slots to attend Channel Link!!!!

It was great speaking with everyone yesterday. Again this is a great opportunity to attend one of Tech Data’s reseller facing events. There is expected to be 500 reseller attendees. The event will be held at the Venetian – Las Vegas, April 10-12. Attached you will find the vendor prep kit, tentative agenda and Technology Expo Service Kit.

7. To protect its technology, RazDog filed for and obtained two patents—U.S. Patent No. 9,729,658 (the “’658 Patent”) and U.S. Patent No. 10,334,068 (the “’068 Patent”)—both of which are the subject of this litigation. The ’658 and ’068 Patents are collectively referred to herein as the “RazDog Patents.”

1 8. While RazDog was ultimately unable to successfully market its software in the  
2 wake of rampant infringement, its patent-protected technology has flourished in the marketplace.

3 **NATURE OF THE ACTION**

4 9. This is a civil action for patent infringement arising under 35. U.S.C. § 100, *et seq.*,  
5 and in particular, § 271 pertaining to Twitch's live video carousels.

6 **PARTIES**

7 10. Plaintiff RazDog is a Delaware company with a principal place of business located  
8 at 222 Stapleford Park Drive, Greenville, South Carolina 29607.

9 11. On information and belief, defendant Twitch is a Delaware corporation with a  
10 principal place of business located at 350 Bush Street, Suite 2, San Francisco, California 94104.

11 12. On information and belief, Twitch has committed acts of infringement in this  
12 District, including by, among other things, making, using, offering for sale, and/or selling services  
13 accessible at <https://www.twitch.tv/> that infringe the RazDog Patents.

14 **JURISDICTION AND VENUE**

15 13. The Court has subject matter jurisdiction over this action under 28 U.S.C. §§ 1331  
16 and 1338(a) because it arises under the patent laws of the United States.

17 14. The Court has personal jurisdiction over Twitch. On information and belief, Twitch  
18 maintains a regular and established place of business at 350 Bush St., San Francisco, CA 94104  
19 and has purposefully availed itself of the rights and benefits of the laws of this State and this  
20 District by committing acts of infringement, as outlined in this Complaint.

21 15. On information and belief, Twitch operates infringing video streaming  
22 infrastructure through at least *sfo.contribute.live-video.net* in this District.

23 16. Venue is proper in this District under 28 U.S.C. §§ 1391 and 1400(b) because,  
24 among other things, Twitch has a regular and established place of business in this District, has  
25 engaged in a substantial number of events giving rise to RazDog's claims in this District, and has  
26 committed acts of infringement in this District.

**FACTUAL BACKGROUND**

***The RazDog Patents***

17. On October 11, 2011, the RazDog inventors filed the application which the United States Patent and Trademark Office (“PTO”) issued on August 8, 2017 as U.S. Patent No. 9,729,658, entitled “System For Managing Web-Based Content Data and Applications.”<sup>1</sup> Then, on June 26, 2017, the RazDog inventors filed a continuation application which the PTO issued on June 25, 2019 as U.S. Patent No. 10,334,068, entitled “System For Managing Web-Based Swipe Module Tool And Software For Scrolling And Paging Through Content Data And Applications.”<sup>2</sup> RazDog is the assignee and owner of all rights, title, and interest in and to the RazDog Patents, including the right to assert all causes of action arising under the RazDog Patents and the right to all remedies for infringement of the RazDog Patents.

18. The RazDog Patents describe two main components: (1) a “slide tool” interface; and (2) a remote tool box and networking component.

19. The “slide tool” interface allows users to page or scroll through content on a master webpage—with the content being provided in real time from multiple content sources or service providers.

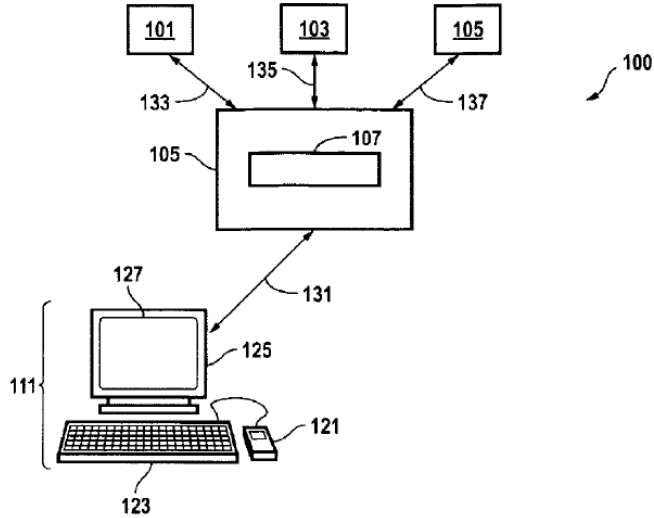
20. A master server (105 below) and master webpage act as a point of access to such content. The master server ingests data from the content sources or providers (*e.g.*, 101, 103, 105 below) in real time (*e.g.*, live streams) for delivery to users on the master webpage.

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<sup>1</sup> The '658 Patent is attached hereto as **Ex. 1**, and a patent infringement claim chart concerning Twitch’s infringement thereof is introduced in the counts of infringement, *infra* ¶¶ 36, 41-43.

<sup>2</sup> The '068 Patent is attached hereto as **Ex. 2**, and a patent infringement claim chart concerning Twitch’s infringement thereof is introduced in the counts of infringement, *infra* ¶¶ 36, 44-46.

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'068 Patent at Figure 1; '658 Patent at Figure 1.

21. The remote tool box allows a user, administrator, or other webpage operator to control the layout or operation of the content displayed on the master webpage. An operator can enable or disable various tool features that change how subsets of content are received, organized, or displayed. For example, the layout of a website carousel can be modified, and the scrolling speed of a carousel raised or lowered. Similarly, the operator can restrict access to content to only certain authorized users. The master server also collects analytics based on the settings in the tool box to target products, services, or information to users.

22. Prior to the inventions of the RazDog Patents, “available computing systems require[d] multiple log-in procedures for accessing [] multiple sources of content data and/or services and/or d[id] not provide the ability to manage the content data and/or services from multiple sources through a single user interface.” '068 Patent at 1:61-66; '658 Patent at 1:53-58. It is believed that there were no “computer systems . . . that allow[ed] [a user] to migrate through content data using a scrolling-type feature or tool . . .” in real time without a plug-in. '068 Patent at 2:6-9; '658 Patent at 1:66-2:2.

23. Instead, in prior “scrolling software that typically r[an] on mobile computing devices, such as smartphones . . . a user swipe[d] through content data contained in different files that are stored directly on the mobile device.” '068 Patent at 2:10-15 (emphasis added); '658 Patent at 2:2-7 (emphasis added). Unlike RazDog’s novel technology that enabled users to migrate

1 through content received in real time, it is believed that prior scrolling software on mobile devices  
2 only allowed users to swipe through content that had already been downloaded and stored locally.

3 24. A “second type of scrolling application include[d] a ‘plug-in and play’ software  
4 that is operated from a computing device, such as a lap-top or desk-top computer”—which required  
5 users to “download[] the plug-in and play software . . . allow[ing] the user to execute functions for  
6 scrolling or migrating through various web-pages of content data displayed on a web-site interface  
7 in a ‘slide-like’ presentation.” ’068 Patent at 2:24-32; ’658 Patent at 2:16-24. It is believed that  
8 this plug-in software was “not capable of being integrated directly into web-based application,  
9 such as to allow the user to migrate through content data from multiple content data sources  
10 through a single user interface in real time.” ’068 Patent at 2:32-37; ’658 Patent at 2:24-29.

11 25. The RazDog Patents resolved these technical shortcomings of prior techniques  
12 through their unconventional cloud-based system for managing and organizing content on  
13 webpages in real time. The technological solution taught by the RazDog Patents enabled users to  
14 page or scroll through content provided in real time on a master webpage without the need for a  
15 plug-in.

16 26. The RazDog Patents’ teaching of a slide tool interface that allows for the  
17 convergence of content from multiple sources in real-time with a “tool box” was a contrarian  
18 approach to how companies managed and provided website content. Indeed, the novelty of  
19 RazDog’s technology led the Managing Director of Publicis Boise to state, “Publicis Boise is  
20 known for innovation in media solutions and flawless execution of these concepts” and that it had  
21 “partnered with RazDog.com to bring the technology that will take web delivery of information  
22 and entertainment to the next level.” **Ex. 5**, (1888 Press Release, Publicis Boise and RazDog  
23 Launch CloudMotion (TM), Dec. 14, 2011). She recognized that “[a]s a member of RazDog.com’s  
24 partner network, Publicis Boise clients benefit from the strength of leading-edge software design  
25 and a next-generation software platform that integrates with customer’s existing systems.” *Id.*

26 27. Similarly, the Vice President of Software Product Marketing for Tech Data,  
27 described RazDog’s CloudMotion software as “an innovative solution”:  
28



"Our StreamOne partnership with RazDog.com reconfirms Tech Data's commitment to provide our customers with innovative software that will continue to help them meet their business goals," said Stacy Nethercoat, Vice President of Software Product Marketing for Tech Data. "By offering CloudMotion, our network of resellers are able to provide business value and an innovative solution to end-users."

**Ex. 6**, (1888 Press Release, RazDog.com included in Tech Data's StreamOne (TM) Solutions Store Agreement Allows RazDog to Reach 60,000 Value Added Resellers, Jan. 24, 2012).

28. For at least these reasons, the RazDog Patents' advancements to prior techniques were unconventional at the time of their priority date.

***Twitch's Infringement***

29. The Twitch Video System is a cloud-based system that delivers live streams from individual broadcasters, sometimes referred to as "streamers," pertaining to video games and other topics, together with live commentary.

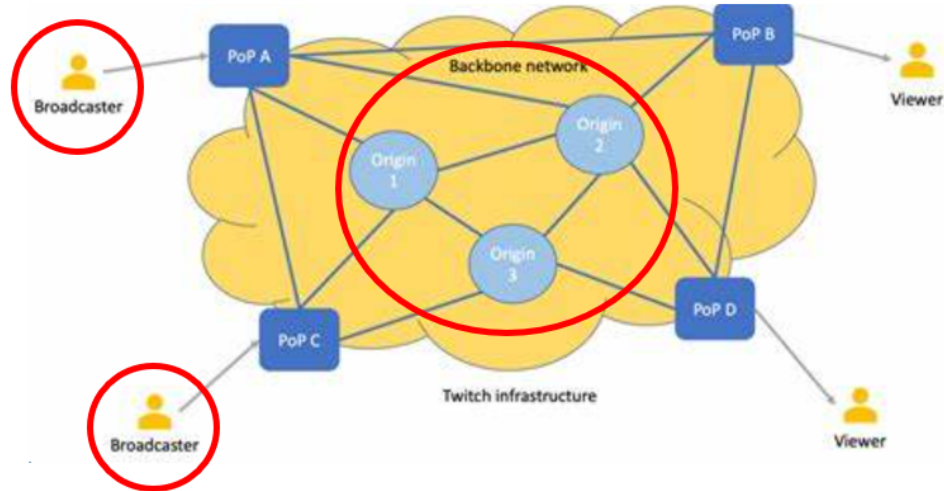
30. Twitch servers ingest live media from pre-selected broadcasters simultaneously in real time, which they then deliver to viewers via Twitch's cloud-based infrastructure and webpage carousels. Viewers can horizontally page or scroll between video content organized on the carousels.

31. Twitch's webpage includes a "slide tool"—"carousels" for organizing live video content received from the numerous content sources (e.g., streamers):



32. As shown below, multiple broadcasters stream live video through Twitch's infrastructure. The origin server (and/or one or more of the content processing and/or delivery

1 servers in Twitch’s infrastructure) then delivers this content in real time to remote computer  
 2 devices (viewers below) via Twitch’s webpage.



11  
 12 **Ex. 7**, (Ingesting Live Video Streams at Global Scale) (emphasis added).

13 33. Broadcasters stream content data and content applications to Twitch’s origin server  
 14 simultaneously in real time. As shown below, Twitch ingests video data from broadcasters using  
 15 the real-time messaging protocol (RTMP). On information and belief, these videos are streamed  
 16 simultaneously in real time to the Twitch origin server so that Twitch can deliver them “live” on  
 17 its carousels.

**Video System**

The video system is responsible for getting video from the broadcaster to our viewers. This includes the following core components:

- Video ingest – We take RTMP video in, and then transport it to the transcode system.

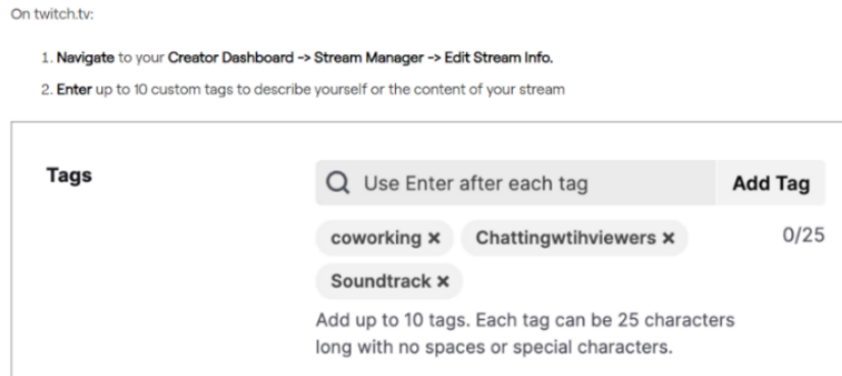
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 19  
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 21 **Ex. 8**, (Twitch Engineering: An Introduction and Overview, Dec. 18, 2015) (emphasis added).

22 34. The videos are then viewable from remote computer devices on Twitch’s live  
 23 streamed website carousels.

24 35. The Twitch Video System also includes a remote tool box that allows Twitch and  
 25 its users to write code, enter settings, and/or select icons associated with code that enable and  
 26 disable various tool features to control how subsets of video content are received, displayed, and/or  
 27 organized.

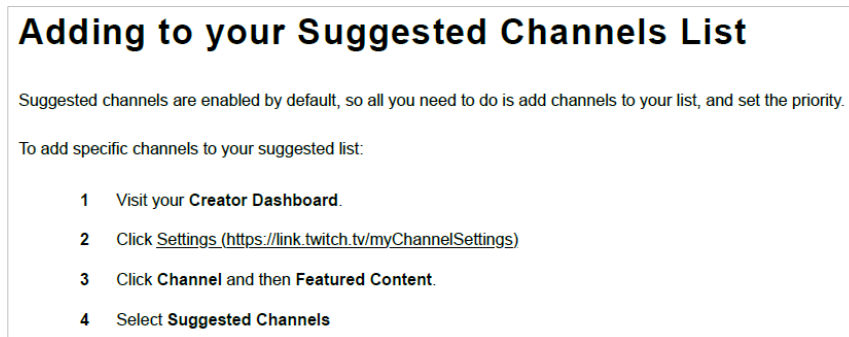
1 36. These services and features, as well as other implementations of the Twitch Video  
2 System that include carousels and a remote tool box, infringe the RazDog Patents (the “Twitch  
3 Infringing Services”), as set forth in more detail in the infringement charts attached hereto as  
4 **Exhibit 3** and **4**.

5 37. Moreover, Twitch provides instructions to use the Twitch Infringing Services. For  
6 example, it instructs how to use the Tags feature in an infringing manner:



14 **Ex. 9**, (Adding Tags to Your Stream).

15 38. As another example, Twitch provides instructions on how to use the Suggested  
16 Channels feature in an infringing manner:



23 **Ex. 11**, (How to Use Suggested Channels).

24 39. Twitch is a wholly owned subsidiary of Amazon.com, Inc.

25 40. On information and belief, Twitch is also part of Amazon Web Services, Inc.  
26 (“AWS”). For example, although Twitch is putatively a separate company, Twitch’s former CEO  
27 Emmett Shear confirmed that Twitch is part of AWS:

**So Twitch is part of AWS?**

That's right. We're technically inside of AWS, but we are very independent and still with our own separate company. But that's the part of Amazon we are closest to.

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4 **Ex. 17**, (Twitch CEO Emmett Shear Talks Live Streaming, Sarcasm, and Amazon Web Services).

5 **COUNT ONE**

6 ***Patent Infringement of the '658 Patent***

7 41. RazDog incorporates by reference each of the preceding paragraphs of this  
8 Complaint.

9 42. Twitch has directly infringed and continues to directly infringe at least claim 1 of  
10 the '658 Patent, pursuant to 35 U.S.C. § 271(a), literally or under the doctrine of equivalents,  
11 through its making, using, selling and/or offering for sale of the Twitch Infringing Services. For  
12 example, Twitch's infringement of claim 1 of the '658 Patent through the Twitch Infringing  
13 Services is shown in the chart attached hereto. *See Ex. 3*.

14 43. Accordingly, Twitch's infringement of the '658 Patent has injured RazDog in an  
15 amount to be determined at trial.

16 **COUNT TWO**

17 ***Patent Infringement of the '068 Patent***

18 44. RazDog incorporates by reference each of the preceding paragraphs of this  
19 Complaint.

20 45. Twitch has directly infringed and continues to directly infringe claim 1 of the '068  
21 Patent, pursuant to 35 U.S.C. § 271(a), literally or under the doctrine of equivalents, through its  
22 making, using, selling and/or offering for sale of the Twitch Infringing Services. For example,  
23 Twitch's infringement of the '068 Patent through the Twitch Infringing Services is shown in the  
24 chart attached hereto. *See Ex. 4*.

25 46. Accordingly, Twitch's infringement of the '068 Patent has injured RazDog in an  
26 amount to be determined at trial.

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**PRAYER FOR RELIEF**

WHEREFORE, RazDog respectfully prays for relief as follows:

- A. A judgment that Twitch has infringed one or more claims of the '658 and '068 Patents;
- B. An award of damages pursuant to 35 U.S.C. § 284 in an amount sufficient to compensate RazDog for Twitch's infringement, not less than a reasonable royalty, along with pre- and post-judgment interest;
- C. An order for an accounting of damages caused by Twitch's infringement;
- D. An order declaring this case exceptional and awarding RazDog its costs, expenses, and attorneys' fees pursuant to 35 U.S.C. § 285; and
- E. An order awarding RazDog such other and further relief, whether at law or in equity, that this Court finds just, equitable, and proper.

**JURY DEMAND**

Pursuant to Federal Rule of Civil Procedure 38(b) and Civil Local Rule 3-6(a), RazDog hereby demands a trial by jury on all issues so triable.

Dated: June 17, 2024

By: /s/ John V. Picone III

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