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Attorneys for Plaintiff
PALO ALTO RESEARCH CENTER INC.

**UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA**

) Case No. 2:20-cv-10755

)
) Palo Alto Research Center Inc.,

)
) Plaintiff,

)
) v.

)
) Snap Inc.,

)
) Defendant.

)
) **COMPLAINT FOR PATENT
INFRINGEMENT**

)
) **DEMAND FOR JURY TRIAL**

1 Plaintiff Palo Alto Research Center Inc. (“PARC” or “Plaintiff”) brings this
2 Complaint against Snap Inc. (“Snap” or “Defendant”) for infringement of U.S. Patent
3 Nos. 8,489,599 (the “’599 Patent”); 9,208,439 (the “’439 Patent”); and 8,966,362 (the
4 “’362 Patent”) (collectively, the “PARC Patents”). Plaintiff, on personal knowledge
5 as to its own acts, and on information and belief as to all others based on its
6 investigation, alleges as follows:

7 **SUMMARY OF THE ACTION**

8 1. This is a patent infringement suit relating to Snap’s unauthorized and
9 unlicensed use of the PARC Patents on its websites and in its apps. The technologies
10 claimed in the PARC Patents support many of Snap’s core functionalities, such as its
11 personalized and targeted advertisement services, its social network feeds, and its
12 notification services features.

13 2. PARC has been at the forefront of technological innovation for over 50
14 years. In addition to inventing the first personal computer, PARC is responsible for
15 many cutting-edge technologies we now consider indispensable to our daily lives, like
16 the laser printer; Ethernet; the windows, pop-up menus, and icons that form today’s
17 computer “desktop;” a word processing program that led to Microsoft Word; and
18 computer animation systems that later earned both an Emmy and an Academy Award.
19 PARC’s revered scientists and engineers are integral to its history of innovation and
20 work tirelessly, all over the world, to continue creating transformational products for
21 the future. In recognition of that hard work, the United States Patent and Trademark
22 Office (“USPTO”) has issued thousands of patents to PARC.

23 3. In contrast, Snap recently entered the social media scene as a “real-time
24 picture chatting” messenger in 2011. Snap’s founders “wanted a place to share
25 awkward selfies and funny photos” and simultaneously avoid the “hilarious stories
26 about emergency detagging of Facebook photos before job interviews.”
27 <https://www.snap.com/en-US/news/post/lets-chat>. They decided that Snap
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1 communications (called snaps) should therefore disappear after being viewed by the
2 recipient. Snap quickly gained steam with high school students “who were using
3 Snap[] as a new way to pass notes in class.” *Id.* With the addition of filters, stories,
4 and shopping features, Snap has grown into a platform serving hundreds of millions of
5 users. However, this exponential growth created a series of new challenges for Snap,
6 including how to connect its users with relevant content and serve targeted, relevant
7 advertisements to support the ever-growing needs of Snap’s infrastructure.

8 4. Because PARC was at the nucleus of the idea that later birthed the
9 Internet, it anticipated many of these issues before Snap ever encountered them. And
10 PARC’s ground-breaking artificial intelligence—which has been a focus of PARC
11 engineers since well before Snap existed—forms the backbone of many of these
12 solutions, including those described in the PARC Patents. PARC brings this action to
13 put a stop to Snap’s unauthorized and unlicensed use of the PARC Patents.

14 THE PARTIES

15 **I. PARC**

16 5. PARC is a wholly-owned subsidiary of Xerox Corporation (“Xerox”),
17 with a principal place of business at 3333 Coyote Hill Road, Palo Alto, California
18 94304.

19 6. PARC and its corporate parent, Xerox, have made some of the most
20 important technological breakthroughs of the past 100 years, including the first
21 personal computer; the advent of laser printing, Ethernet, and graphical user interfaces
22 (“GUIs”); the “desktop” metaphor ubiquitous with today’s computers; object-oriented
23 programming; electronic paper; and many other technologies. Not only do PARC and
24 Xerox have a deeply-rooted past in pioneering printer and computer advancements,
25 but they have also extended that legacy to newer technologies like artificial
26
27
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1 intelligence (“AI”).¹ AI underlies the machine learning, computer modeling, and data
2 science tools that will help businesses solve the challenges of the 21st century related
3 to big data, personalization, and prediction algorithms.

4 7. PARC’s innovations aren’t limited to its computing origins. PARC
5 develops and builds technologies far beyond its core competencies, and helps others
6 bring their ideas to fruition. For example, PARC has worked with the U.S.
7 Department of Defense, Department of Energy, NASA, and DARPA to meet their
8 ambitious goals for the next generation of technology. PARC also partners with
9 entrepreneurs and start-ups to realize their dreams. These collaborations have resulted
10 in greener air conditioning technologies,² floating oceanic sensors, fiber optic sensors,
11 solar energy, natural language search, novel medical devices, and improvements to
12 natural gas processing. Today, PARC continues this tradition to shape the future and
13 improve the world.

14 **II. DEFENDANT**

15 8. On information and belief, Snap is a Delaware Corporation with its
16 principal place of business at 2772 Donald Douglas Loop North, Santa Monica,
17 California 90405. Snap is a social media company, which owns and operates the
18 Snapchat app.

19 9. On information and belief, Snap (including its subsidiaries) directly
20 and/or indirectly develops, designs, manufactures, uses, distributes, markets, offers to
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22 _____
23 ¹ See Greg Nichols, *PARC is turning 50: From Ethernet and laser printing to this wild*
24 *new tech*, NDNET, (March 10, 2020), <https://www.zdnet.com/article/parc-is-turning-50-from-ethernet-and-laser-printing-to-this-wild-new-tech/>.

25 ² See *Electrocaloric devices show potential for greener air conditioning*.
26 PhysicsWorld (Oct. 1, 2020), <https://physicsworld.com/a/electrocaloric-devices-show-potential-for-greener-air-conditioning/>.

1 sell and/or sells infringing products and services in the United States, including in this
2 District, and otherwise purposefully directs infringing activities to this District in
3 connection with its websites and applications.

4 **JURISDICTION AND VENUE**

5 10. This is an action arising under the patent laws of the United States, 35
6 U.S.C. §§ 1, *et seq.* Accordingly, this Court has subject matter jurisdiction pursuant to
7 28 U.S.C. §§ 1331 (federal question) and 1338(a) (action arising under an Act of
8 Congress relating to patents). Venue is proper in this judicial district under 28 U.S.C.
9 §§ 1391 and 1400(b).

10 11. More specifically, this action for patent infringement involves Snap’s
11 manufacture, use, sale and/or lease, offer for sale and/or lease, of infringing
12 technology within its various applications to create and deliver targeted and
13 personalized ads, and deliver personalized, context-specific content to users (the
14 “Infringing Products” associated with each of the PARC Patents as shown below).

15 12. The Infringing Products, which are explained in exemplary detail *infra*,
16 include Snap’s targeted and personalized advertising systems; Snap’s notification and
17 messaging system; and Snap’s comment organization system.

18 13. On information and belief, Snap has offices physically located in the
19 Central District of California, including its headquarters. Snap lists Los Angeles as an
20 employment location on its website.³ On information and belief, Snap owns and/or
21 leases the premises where these offices are located. On information and belief, these
22 Snap offices are staffed by persons directly employed by Snap, many of whom live in
23 this District. On information and belief, Snap employs numerous individuals whom
24 live in and/or work within this District.

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26 ³ See, e.g. *Jobs*, SNAPCHAT, [https://www.snap.com/en-](https://www.snap.com/en-US/jobs/?locations=Los+Angeles)
27 [US/jobs/?locations=Los+Angeles](https://www.snap.com/en-US/jobs/?locations=Los+Angeles) (last visited November 24, 2020).
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1 14. On information and belief, Snap has committed and continues to commit
2 acts of infringement in violation of 35 U.S.C. § 271, and has made, used, marketed,
3 distributed, offered for sale, sold, and/or imported its Infringing Products in the state
4 of California, including in this District, and engaged in infringing conduct within and
5 directed at or from this District.

6 15. On information and belief, Snap conducts its regular, established
7 business its offices in this District. These Snap offices and employees develop,
8 provide, maintain, make available, and assist others in using the Infringing Products,
9 including customers in this District, across the United States, and across the globe.
10 Snap has also purposefully and voluntarily placed the Infringing Products into the
11 stream of commerce with the expectation that the Infringing Products will be used in
12 this District. The Infringing Products have been and continue to be distributed to and
13 used in this District. Snap's acts cause injury to PARC, including within this District.

14 16. This Court has general and/or specific personal jurisdiction over Snap,
15 and venue is proper because Snap, directly and/or in combination with its subsidiaries
16 and/or through its agents, does continuous and systematic business in this District,
17 including by providing its Infringing Products to residents of this District, providing
18 its Infringing Products that it knew would be used within this District, and/or
19 participating in the solicitation of business from residents of this District.

20 17. Moreover, on information and belief, Snap, directly or through its
21 subsidiaries, places its Infringing Products in the stream of commerce, which is
22 directed at this District, with the knowledge and/or understanding that such Infringing
23 Products will be provided to customers within this District. In addition, on
24 information and belief, Snap, directly or through its subsidiaries, employs individuals
25 within this District, including employees who design, develop, use, offer, or make
26 available its Infringing Products to customers here, and maintains offices and facilities
27 here. Snap, directly or through its subsidiaries, operates highly-trafficked commercial
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1 websites and mobile applications through which customers in this District regularly
2 use the Infringing Products.

3 18. Venue is appropriate in this Court because PARC maintains business
4 connections in this District. PARC has partnered with various organizations to create
5 innovations that have had significant impact on this District. For instance, in
6 collaboration with the Virginia Tech Transport Institute (VTTI), PARC secured
7 funding from the Advanced Research Projects Agency–Energy (ARPA-e) section of
8 the United States Government’s TRANSNET program in order to create a pilot
9 program in Los Angeles designed to save substantial amounts of energy previously
10 used on commercial transportation.⁴ Other examples include PARC’s work with the
11 University of California, Riverside (“UCR”), on (a) a DARPA project related to a
12 UCR AI visual security project;⁵ and (b) a Department of Energy project related to the
13 production of carbon fibers. Yet another example is PARC’s work with Boeing’s HRL
14 Laboratories in Malibu related to diode research.

15 **FACTUAL BACKGROUND**

16 **I. PARC’S HISTORY OF INNOVATION**

17 19. PARC has spent more than 50 years investing in and developing ground-
18 breaking technology. From revolutionary laser printer and Ethernet innovations to
19

20 ⁴ Press Release, PARC A Xerox Company, *PARC Secures ARPA-E Funding to Build*
21 *Energy-Saving Travel Preferences Attractive to Individual Travelers*, PARC,
22 [https://www.parc.com/press-releases/parc-secures-arpa-e-funding-to-build-energy-](https://www.parc.com/press-releases/parc-secures-arpa-e-funding-to-build-energy-saving-travel-preferences-attractive-to-individual-travelers/)
23 [saving-travel-preferences-attractive-to-individual-travelers/](https://www.parc.com/press-releases/parc-secures-arpa-e-funding-to-build-energy-saving-travel-preferences-attractive-to-individual-travelers/) (last visited November 24,
24 2020).

25 ⁵ UC Riverside News, *UC Riverside computer scientists receive grant to improve*
26 *security of visual artificial intelligence*, [https://news.ucr.edu/articles/2020/07/27/uc-](https://news.ucr.edu/articles/2020/07/27/uc-riverside-computer-scientists-receive-grant-improve-security-visual)
27 [riverside-computer-scientists-receive-grant-improve-security-visual](https://news.ucr.edu/articles/2020/07/27/uc-riverside-computer-scientists-receive-grant-improve-security-visual) (last
28 visited November 24, 2020).

1 transformational AI, PARC and Xerox have been at the forefront of every major
2 technological advancement in the computer world.

3 20. In 1970, PARC was born. PARC was originally tasked with creating
4 computer-related products, and it delivered. In 1971, PARC created laser printers,
5 which developed into a multibillion dollar printing business for Xerox. In 1973,
6 PARC designed the first personal computer called the “Alto” and a system of linked
7 devices, which it coined “Ethernet.” In 1975, PARC debuted the first GUIs, and
8 eventually influenced both Microsoft and Apple in their first attempts at personal
9 computing. As a result, PARC has earned the moniker of “the smartest think tank on
10 the planet.”⁶

11 21. PARC continues to create innovative products today and helps others
12 pioneer the future of science and technology. It lends custom research and
13 development services, technology, expertise, and best practices to several Fortune 500
14 and Global 1000 companies, small startups, and numerous government agencies.
15 These partnerships have resulted in game-changing solutions to electric grid
16 reliability,⁷ climate change, infrastructure maintenance, and other industries.⁸ PARC’s
17 efforts have created \$1 trillion in new industries, generated more than \$60 billion in
18 start-ups and spin-offs, and resulted in over 6,000 patents.

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21 ⁶ See Nicole C. Wong, *Xerox PARC’s legacy continues on*, East Bay Times, (Jan. 8,
2007) <https://www.eastbaytimes.com/2007/01/08/xerox-parcs-legacy-continues-on-3/>.

22
23 ⁷ Press Release, PARC A Xerox Company, The U.S. Department of Energy’s Office
24 of Electricity (OE) Selects PARC, Con Edison, and GE to Improve Grid Reliability
25 (July 29, 2019) <https://www.parc.com/press-releases/the-u-s-department-of-energys-office-of-electricity-oe-selects-parc-con-edison-and-ge-to-improve-grid-reliability/>.

26
27 ⁸ See *Xerox Provides MaaS Services in LA and Denver*, Drive Sweden, (June 7, 2016)
28 <https://www.drivesweden.net/en/xerox-provides-maas-services-la-and-denver>.

1 **II. SNAP HAS LONG BENEFITED FROM ITS USE OF PARC'S**
2 **PATENTED TECHNOLOGIES**

3 22. Snap generates substantially all of its revenue from selling advertising.
4 As Snap acknowledges, it “generate[s] substantially all of [its] revenues by offering
5 various advertising products on Snapchat.”⁹ In the third quarter of 2020, Snap
6 reported revenue of \$679 million.¹⁰ This ad revenue made up substantially all of
7 Snap’s total quarterly revenue and reflects its importance to Snap’s financial
8 success.¹¹ In fact, advertising has made up at least 96% of Snap’s revenue since at
9 least 2016.¹² These revenues allow Snap to provide a “free” social network to users,
10 maintain and expand its infrastructure, pay its bills, and turn an immense profit.

11 23. Snap’s traffic and revenue—much of which relates to Snap’s
12 infringement as outlined in this Complaint—are increasing at a double-digit rate year-
13 over-year. In the first quarter of 2020, Snap reported a 20% year-on-year increase in
14 daily active users and 44% revenue growth.¹³ Similarly, Snap reported 249 million
15

16 ⁹ See *Snap, Inc. 2020 Form 10-Q*, SEC ARCHIVES (Sept. 30, 2020)
17 https://www.sec.gov/Archives/edgar/data/0001564408/000156459020047000/snap-10q_20200930.htm.

18 ¹⁰ See *Snap Inc. Announces Third Quarter 2020 Financial Results*, SNAPCHAT,
19 (October 20, 2020) <https://investor.snap.com/news/news-details/2020/Snap-Inc.-Announces-Third-Quarter-2020-Financial-Results/default.aspx>.

20 ¹¹ See *Snap, Inc. 2020 Form 10-Q*, SEC ARCHIVES (Sept. 30, 2020)
21 https://www.sec.gov/Archives/edgar/data/0001564408/000156459020047000/snap-10q_20200930.htm.

22 ¹² See *Snap, Inc. 2018 Form 10-K*, SEC ARCHIVES, (Dec. 31 2018)
23 https://www.sec.gov/Archives/edgar/data/0001564408/000156459019002053/snap-10k_20181231.htm.

24 ¹³ See *Snap ad revenue strong – but spend concerns ahead*, The Drum
25 <https://www.thedrum.com/news/2020/04/22/snap-ad-revenue-strong-spend-concerns->
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1 daily active users in the third quarter of 2020, an increase of 39 million or 18% year-
2 over-year.¹⁴

3 24. This increase in active users has insulated Snap from the general
4 downturn the advertising industry has experienced during the COVID-19 pandemic.
5 In fact, Snap’s users have drawn retailers that normally rely on other mediums of
6 promoting their products to be part of creative advertising campaigns on the Snapchat
7 platform.¹⁵ Furthermore, during the pandemic, Snap users increased video and voice
8 calling by 50% and ad engagement increased by 36%.¹⁶

9 25. Generating its largest source of income, Snap’s unauthorized and
10 unlicensed use of the PARC Patents has substantially contributed to Snap’s financial
11 success.

12 **FIRST CLAIM FOR RELIEF**

13 **INFRINGEMENT OF U.S. PATENT NO. 8,489,599**

14 26. Plaintiff realleges and incorporates by reference the allegations of
15 paragraphs 1-25 of this Complaint.

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17
18 [ahead](#) (last visited November 24, 2020).

19 ¹⁴ See *Snap Inc. Announces Third Quarter 2020 Financial Results*, SNAPCHAT,
20 (October 20, 2020) <https://investor.snap.com/news/news-details/2020/Snap-Inc.-Announces-Third-Quarter-2020-Financial-Results/default.aspx>

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22 ¹⁵ Megan Graham, *As ad market rebounds from coronavirus, Snap says it’s ‘feeling a*
23 *lot of momentum,*’ CNBC, (Oct. 6, 2020),
24 <https://www.cnbc.com/2020/10/06/snapchat-sees-growth-in-direct-response-ads-during-coronavirus-pandemic.html>.

25 ¹⁶ See *Snap ad revenue strong – but spend concerns ahead*, The Drum
26 <https://www.thedrum.com/news/2020/04/22/snap-ad-revenue-strong-spend-concerns-ahead> (last visited November 24, 2020).
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1 27. The '599 Patent is valid and enforceable under United States Patent
2 Laws.

3 28. PARC owns, by assignment, all right, title, and interest in and to the '599
4 Patent, including the right to collect for past damages.

5 29. A copy of the '599 Patent is attached as Exhibit A.

6 **The '599 Patent**

7 30. The '599 Patent describes, among other things, a method and apparatus
8 for creating and presenting content based on contextual information. In one
9 embodiment, the '599 Patent describes receiving and using contextual information
10 about a user to determine a context associated with the user. The '599 Patent further
11 describes using this context to determine if a trigger condition is met, and, if so,
12 presenting content to a user. The '599 Patent also describes that the user's response
13 may be monitored, and an action may be taken depending on the user's response.

14 31. By 2008, PARC recognized that although there was a proliferation of
15 mobile devices (including phones, PDA, and laptops), "these mobile devices are not
16 capable of learning and understanding the behavior of their users." '599 Patent at
17 1:19-22, 1:41-43. Indeed, as the '599 Patent notes:

18 these mobile devices cannot determine when and how best to provide
19 their users with information or suitable entertainment content, because
20 they do not take into account the activities that their users are involved in.

21 *Id.* at 1:43-46.

22 32. To address these issues, in one embodiment, the '599 Patent "provide[s]
23 a content management system for organizing and delivering packages of audio and
24 visual content to a user in response to activities being performed by the user, and in
25 response to a number of environmental factors associated with the user." *Id.* at 3:51-
26 55.

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1 33. The invention of the '599 Patent works, for example, by “receiv[ing] a
2 set of contextual information with respect to the user, and processes the contextual
3 information to determine a context which is associated with an activity being
4 performed by the user.” *Id.* at Abstract.

5 34. This contextual information can come “from a number of input sources
6 (*e.g.*, a global positioning system (GPS) device, or an accelerometer), which reflects
7 basic information associated with the user.” *Id.* at 4:33-36; *see also id.* at 4:36-46,
8 6:23-7:2. The '599 Patent describes that the preferred system embodiment can
9 “determine a context associated with a user and/or operating conditions of the mobile
10 device based on contextual information.” *Id.* at 7:30-33; *see also id.* at 7:33-45. The
11 system “can be programmed to infer specific contexts about the user based on
12 contextual information.” *Id.* at 7:46-48; *see also id.* at 7:48-59.

13 35. One embodiment of the '599 Patent further describes that if the user's
14 context or activity “satisfy a trigger condition,” the system “selects content from a
15 content database ... to present to the user.” *Id.* at Abstract. These triggers can be pre-
16 defined, including in relation to specific content. *Id.* at 3:60-4:6. Different content can
17 be presented in different contexts. *Id.* at 8:39-50.

18 36. The '599 Patent's “FIG. 3 presents a flow chart illustrating a process for
19 delivering context-based content to a user in accordance with an embodiment of the
20 present invention[.]”:

21 The content management system begins by receiving contextual
22 information (operation 310), and processing the contextual information to
23 determine a context (operation 320). Next, the content management
24 system determines whether the context satisfies a trigger condition
25 (operation 330). If so, the content management system selects content
26 from the content database based on the context (operation 340), and
27 presents the selected content to the user (operation 350).

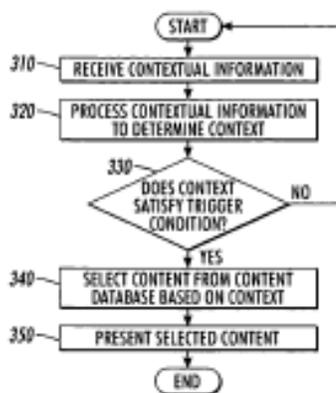


FIG. 3

8
9 *Id.* at 18:53-63, Fig. 3.

10 37. Depending on “an expected response from the user,” an embodiment of
11 the ’599 Patent “can perform an action responsive to a user response or interaction
12 with the presentation of content.” *Id.* at 12:50-51, 12:66-13:1.

13 **’599 Patent Allegations**

14 38. Snap designed, implemented, and currently uses a variety of advertising
15 tools, including “audiences,” to target ads for its social media platform. *See*
16 <https://businesshelp.snapchat.com/en-US/article/create-first-campaign>. Snap allows
17 advertisers to use “Instant Create” or “Advanced Create” to create ad campaigns. *See*
18 <https://forbusiness.snapchat.com/resources/getting-started>. In both campaign types,
19 advertisers can select specific audiences, including based on location and device type.
20 <https://forbusiness.snapchat.com/resources/getting-started> (explaining that location
21 and device type are options for both campaign types);
22 <https://businesshelp.snapchat.com/en-US/article/quick-easy> (discussing how to create
23 an “Instant Create” campaign); [https://businesshelp.snapchat.com/en-](https://businesshelp.snapchat.com/en-US/article/create-first-campaign)
24 [US/article/create-first-campaign](https://businesshelp.snapchat.com/en-US/article/create-first-campaign) (discussing how to create an “Advanced Create”
25 campaign).

26 39. On information and belief after reasonable investigation, Snap’s targeted
27 advertising tools (“’599 Infringing Products”) infringe the ’599 Patent. Snap operates
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1 a method for delivering context-based content to a first user. For instance, Snap offers
2 detailed targeting to target ads to users based on user location, or whether the user is
3 on a certain type of device. *See, e.g.*, [https://businesshelp.snapchat.com/en-](https://businesshelp.snapchat.com/en-US/article/quick-easy)
4 [US/article/quick-easy](https://businesshelp.snapchat.com/en-US/article/quick-easy) (explaining Snap’s detailed targeting options);
5 <https://businesshelp.snapchat.com/en-US/article/create-first-campaign> (same).

6 40. Snap receives at least one content package, wherein the content package
7 includes at least one content piece and a set of rules associated with the content
8 package, wherein the set of rules includes a trigger condition and an expected
9 response, and wherein the trigger condition specifies a context that triggers a
10 presentation of the content piece. For instance, Snap receives ad campaigns containing
11 ads and targets for ads. Snap ad targets include location and device conditions such as
12 a user’s location or a user’s type of device (including OS, manufacturer, and more)
13 that trigger presenting an ad to the user as well as whether the user is expected to see,
14 click, view, or otherwise interact with the ad. *See, e.g.*,
15 <https://businesshelp.snapchat.com/en-US/article/quick-easy> (explaining Snap’s
16 detailed targeting options); [https://businesshelp.snapchat.com/en-US/article/create-](https://businesshelp.snapchat.com/en-US/article/create-first-campaign)
17 [first-campaign](https://businesshelp.snapchat.com/en-US/article/create-first-campaign) (same); [https://businesshelp.snapchat.com/en-US/article/snap-auction-](https://businesshelp.snapchat.com/en-US/article/snap-auction-overview)
18 [overview](https://businesshelp.snapchat.com/en-US/article/snap-auction-overview) (explaining how Snap charges for advertising events);
19 <https://businesshelp.snapchat.com/en-US/article/goal-based-bidding> (same).

20 41. Snap receives a set of contextual information with respect to the first
21 user, processes the contextual information to determine a current context for the first
22 user, determines whether the current context satisfies the trigger condition, and, in
23 response to the trigger condition being satisfied, presents the content piece to the first
24 user. For instance, Snap receives information about its users, including information
25 about each user’s location (whether through GPS, WiFi or other information) and type
26 of device. Snap processes that information to determine the user’s location and device
27 type. Snap serves and presents ads to the user after determining that the user accessed
28

1 Snap, for instance, with the required device type or from the required location. *See*,
2 *e.g.*, <https://businesshelp.snapchat.com/en-US/article/quick-easy> (describing Snap’s
3 location targeting options); [https://businesshelp.snapchat.com/en-US/article/create-](https://businesshelp.snapchat.com/en-US/article/create-first-campaign)
4 [first-campaign](https://businesshelp.snapchat.com/en-US/article/create-first-campaign) (same); <https://www.snap.com/en-US/privacy/privacy-policy>
5 (describing how Snap collects information about device type, including hardware
6 model, operating system version, device memory, advertising identifiers, unique
7 application identifiers, apps installed, unique device identifiers, browser type,
8 language, battery level, time zone, mobile phone number, service provider, IP address,
9 signal strength, and location through, *e.g.*, GPS, wireless networks, cell towers, Wi-Fi
10 access points, and other sensors, such as gyroscopes, accelerometers, and compasses.).

11 42. Snap receives a response from the first user corresponding to the
12 presented content piece and determines whether the received response matches the
13 expected response. For instance, Snap tracks the user’s clicks, views, and other
14 responses to the presented ad, and determines whether the user’s response is what the
15 advertiser will pay for. As one example, Snap’s advertising platform allows
16 advertisers to choose whether to be charged when someone clicks an ad link. *See, e.g.*,
17 <https://businesshelp.snapchat.com/en-US/article/snap-auction-overview> (explaining
18 how Snap charges advertisers); [https://businesshelp.snapchat.com/en-US/article/goal-](https://businesshelp.snapchat.com/en-US/article/goal-based-bidding)
19 [based-bidding](https://businesshelp.snapchat.com/en-US/article/goal-based-bidding) (describing Snap’s ad campaign goals, such as likes, views,
20 impressions, swipes, and installs).

21 43. Snap performs an action based on an outcome of the determination. For
22 instance, Snap charges an advertiser if the user clicks, views, or otherwise responds to
23 the presented ad, and further improves its targeting by tracking user responses to ads
24 and creating metrics reports. *See, e.g.*, [https://businesshelp.snapchat.com/en-](https://businesshelp.snapchat.com/en-US/article/ad-performance-metrics)
25 [US/article/ad-performance-metrics](https://businesshelp.snapchat.com/en-US/article/ad-performance-metrics) (explaining ad performance metrics and related
26 actions); <https://businesshelp.snapchat.com/s/article/goal-based->
27
28

1 [bidding?language=en_US](#) (discussing how advertisers are charged for display of ads
2 and the bidding process).

3 44. Snap has infringed and is infringing, individually and/or jointly, either
4 literally or under the doctrine of equivalents, at least claims 1, 12, and 19 of the '599
5 Patent in violation of 35 U.S.C. §§ 271, *et seq.*, directly and/or indirectly, by making,
6 using, offering for sale, selling, offering for lease, leasing in the United States, and/or
7 importing into the United States without authority or license, the '599 Infringing
8 Products.

9 45. Snap has been, and currently is, an active inducer of infringement of one
10 or more claims of the '599 Patent under 35 U.S.C. § 271(b). On information and
11 belief, one or more of the '599 Infringing Products of Snap directly and/or indirectly
12 infringe (by induced infringement) at least claims 1, 12, and 19 of the '599 Patent,
13 literally and/or under the doctrine of equivalents.

14 46. This Complaint will serve as notice to Snap of the '599 Patent and its
15 infringement should Snap contend that it did not previously have knowledge thereof.

16 47. Snap intentionally encourages and aids at least its users, including
17 advertisers and website and app users, to directly infringe the '599 Patent.

18 48. Snap provides the '599 Infringing Products and instructions to its users
19 such that they will use the '599 Infringing Products in a directly infringing manner.
20 Snap markets the '599 Infringing Products to its users and provides instructions to its
21 users on how to use the functionality of the '599 Patent on its website and elsewhere.

22 *See, e.g.,* <https://businesshelp.snapchat.com/en-US/article/create-first-campaign>;
23 <https://forbusiness.snapchat.com/resources/getting-started>;
24 <https://businesshelp.snapchat.com/en-US/article/quick-easy>;
25 <https://businesshelp.snapchat.com/en-US/article/create-first-campaign>;
26 <https://businesshelp.snapchat.com/en-US/article/snap-auction-overview>;

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1 <https://businesshelp.snapchat.com/en-US/article/ad-performance-metrics;>

2 [https://businesshelp.snapchat.com/s/article/goal-based-bidding?language=en_US.](https://businesshelp.snapchat.com/s/article/goal-based-bidding?language=en_US)

3 49. Snap users directly infringe by using the '599 Infringing Products in their
4 intended manner. Snap induces such infringement by providing the '599 Infringing
5 Products and instructions to enable and facilitate infringement. On information and
6 belief, Snap specifically intends that its actions will result in infringement of the '599
7 Patent or has taken deliberate actions to avoid learning of infringement.

8 50. Additional allegations regarding Snap's knowledge of the '599 Patent
9 and willful infringement will likely have evidentiary support after a reasonable
10 opportunity for discovery.

11 51. Snap's infringement of the '599 Patent is willful and deliberate, entitling
12 PARC to enhanced damages and attorneys' fees.

13 52. Snap's infringement of the '599 Patent is exceptional and entitles PARC
14 to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C. § 285.

15 53. PARC has been damaged by Snap's infringement of the '599 Patent and
16 will continue to be damaged unless Snap is enjoined by this Court. PARC has suffered
17 and continues to suffer irreparable injury for which there is no adequate remedy at
18 law. The balance of hardships favors PARC, and public interest is not disserved by an
19 injunction.

20 54. PARC is entitled to recover from Snap all damages that PARC has
21 sustained as a result of Snap's infringement of the '599 Patent, including without
22 limitation, lost profits and/or not less than a reasonable royalty.

23 **SECOND CLAIM FOR RELIEF**

24 **INFRINGEMENT OF U.S. PATENT NO. 9,208,439**

25 55. Plaintiff realleges and incorporates by reference the allegations of
26 paragraphs 1-54 of this Complaint.

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1 56. The '439 Patent is valid and enforceable under United States Patent
2 Laws.

3 57. PARC owns, by assignment, all right, title, and interest in and to the '439
4 Patent, including the right to collect for past damages.

5 58. A copy of the '439 Patent is attached as Exhibit B.

6 **The '439 Patent**

7 59. The '439 Patent describes, among other things, a method and system for
8 collecting mobile device contextual information and updating recommendation
9 systems for activities or items of interest to a user. In one embodiment, the '439 Patent
10 describes receiving mobile device data collected through detectors related to the
11 device's surroundings. The '439 Patent further describes using that data to modify a
12 context graph that stores information about a device user's behavior. The '439 Patent
13 also describes sending a notification when certain changes to the context graph are
14 made.

15 60. By 2013, PARC recognized that although "mobile devices equipped with
16 technology to detect physical surroundings [had] become more pervasive in our
17 everyday lives," using this additional information was difficult as it "takes
18 considerable time and expense to develop such context-aware systems." '439 Patent at
19 1:14-33. The '439 Patent therefore sought to "solve the problem of efficiently
20 developing context aware systems by providing a generic contextual intelligence
21 platform that may be adapted for specific applications." *Id.* at 2:49-52. "Such a
22 contextual intelligence system facilitates real-time processing of contextual
23 information and support[s] contextual application development for Web and mobile
24 applications." *Id.* at 2:53-55.

25 61. To achieve its goals, the '439 Patent "provides a system for providing
26 user information to a recommender." *Id.* at Abstract. In one embodiment, the '439
27 Patent system "receives, from a mobile device, event data derived from contextual
28

1 data collected using detectors that detect the mobile device’s physical surroundings”
2 *Id.* The system then “modifies [a] context graph based on the event data” and
3 “determines that the modification to the context graph matches [a] registration, and
4 sends a notification of context graph change to [a] recommender.” *Id.*

5 62. In one ’439 Patent embodiment, “[c]ontextual data describes a computing
6 context detected by a mobile device client, such as physical surroundings and/or
7 application and/or operating system context.” *Id.* at 2:60-62. “The client-side
8 architecture collects contextual data by detecting a computing context including
9 physical surroundings, application, and operating system context.” *Id.* at 3:1-3. This
10 collection may be done “using detectors such as a GPS, an accelerometer, and/or a
11 compass.” *Id.* at 3:49-51; *see also id.* at 4:31-40. The client-side may determine high-
12 level events (*e.g.*, “a user reading email”) and low-level events (*e.g.*, walking, button
13 push, screen capture) based on information collected from the device. *Id.* at 3:4-22.
14 The client can then “transmit both high-level events and low-level events to the server
15 via an event posting interface 302 and/or a RESTful WebAPI.” *Id.* at 5:42-44. “The
16 server-side architecture stores the contextual data and uses the contextual data to
17 modify a graph containing user behavior and interest information.” *Id.* at 2:62-65.

18 63. In one embodiment, the ’439 Patent describes that “[t]he context graph
19 includes information about user behavior and/or user interests.” *Id.* at 1:41-43. “The
20 context graph stores generic user model information that may be adapted for
21 application-specific user models....” *Id.* at 5:32-34. One exemplary context graph “is a
22 per-user, in-memory, graph-based model that stores facts and assertions about user
23 behavior and actions. Context graph 406 is a database of information about the user.”
24 *Id.* at 7:28-31. This context graph can be used, for instance, by “recommenders [to]
25 modify implementation-specific user models based on the data received from the
26 context graph, and make recommendations based on the information-specific user
27 models.” *Id.* at 6:67-7:4.

1 64. As one example, the '439 Patent describes that “the system may notify
2 recommenders of context graph changes.” *Id.* at 7:55-56. This context graph
3 information, and changes to the graph, can be used by recommenders to “generate
4 and/or modify recommendations.” *Id.* at 8:6-11.

5 **'439 Patent Allegations**

6 65. Snap designed, implemented, and currently uses a variety of advertising
7 tools, such as “audiences,” to target ads for its social media platform. *See*
8 <https://businesshelp.snapchat.com/en-US/article/create-first-campaign>. Snap allows
9 advertisers to use “Instant Create” or “Advanced Create” to create ad campaigns. *See*
10 <https://forbusiness.snapchat.com/resources/getting-started>. In both campaign types,
11 advertisers can select specific audiences, including based on location.
12 <https://forbusiness.snapchat.com/resources/getting-started> (explaining that location is
13 an option for both campaign types); [https://businesshelp.snapchat.com/en-](https://businesshelp.snapchat.com/en-US/article/quick-easy)
14 [US/article/quick-easy](https://businesshelp.snapchat.com/en-US/article/quick-easy) (discussing how to create an “Instant Create” campaign);
15 <https://businesshelp.snapchat.com/en-US/article/create-first-campaign> (discussing
16 how to create an “Advanced Create” campaign).

17 66. On information and belief after reasonable investigation, Snap’s targeted
18 advertising tools (“’439 Infringing Products”) infringe the '439 Patent. Snap receives,
19 from a mobile device, event data derived from contextual data collected using
20 detectors that detect a physical context surrounding the mobile device. For instance,
21 Snap receives device data and data collected using GPS, WiFi, and other location-
22 tracking devices within the user’s mobile phone. From that data, Snap derives the
23 user’s location and device type, among other things. *See, e.g.,*
24 <https://www.snap.com/en-US/privacy/privacy-policy> (describing how Snap collects
25 location data in order to serve more relevant ads, including the collection of user
26 location data through GPS, wireless networks, cell towers, Wi-Fi access points, and
27 other sensors, such as gyroscopes, accelerometers, and compasses.”).

1 67. Snap modifies a context graph that stores facts and assertions about a
2 user's behavior and interests using the event For instance, Snap uses recent/current
3 device type and location data (along with other information) to modify and update the
4 Snap context graph over time. This context graphs stores facts and assertions about the
5 user's behavior and interests, including location history, likes, dislikes, and more. *See*,
6 *e.g.*, <https://www.snap.com/en-US/privacy/privacy-policy> (describing how Snap
7 collects location data in order to serve more relevant ads, including the collection of
8 user location data through GPS, wireless networks, cell towers, Wi-Fi access points,
9 and other sensors, such as gyroscopes, accelerometers, compasses, favorite places,
10 Memories and Our Story locations); <https://arxiv.org/pdf/1906.00355.pdf> (describing
11 Snap action graphs); <https://techcrunch.com/2020/06/12/snapchat-looks-to-maintain-its-own-friendships-with-devs/>
12 (describing Snap's social graph).

13 68. Snap, in response to determining that there exists a registration for
14 notification of changes that matches the modification to the context graph, sends a
15 notification of context graph change to a recommender. For instance, Snap advertisers
16 may elect to be notified of changes to the Snap context graph via Snap sending
17 notifications of the changes to the advertiser by serving advertisements or customizing
18 ad content when event data, such as user location and device type, processed into the
19 Snap context graph, indicates the user is within a location or contains a device type for
20 which an advertisement has been targeted for delivery. *See, e.g.*,
21 <https://businesshelp.snapchat.com/en-US/a/location-targeting> (describing Snap's
22 location targeting); <https://www.snap.com/en-US/privacy/privacy-policy> (describing
23 how Snap collects location data in order to serve more relevant ads, including the
24 collection of user location data through GPS, wireless networks, cell towers, Wi-Fi
25 access points, and other sensors, such as gyroscopes, accelerometers, compasses,
26 favorite places, Memories and Our Story locations);
27 <https://arxiv.org/pdf/1906.00355.pdf> (describing Snap action graphs);
28

1 [https://techcrunch.com/2020/06/12/snapchat-looks-to-maintain-its-own-friendships-](https://techcrunch.com/2020/06/12/snapchat-looks-to-maintain-its-own-friendships-with-devs/)
2 [with-devs/](https://techcrunch.com/2020/06/12/snapchat-looks-to-maintain-its-own-friendships-with-devs/) (describing Snap’s social graph).

3 69. Snap has infringed and is infringing, individually and/or jointly, either
4 literally or under the doctrine of equivalents, at least claims 1, 7, and 13 of the ’439
5 Patent in violation of 35 U.S.C. §§ 271, *et seq.*, directly and/or indirectly, by making,
6 using, offering for sale, selling, offering for lease, leasing in the United States, and/or
7 importing into the United States without authority or license, the Snap Infringing
8 Products.

9 70. Snap has been, and currently is, an active inducer of infringement of one
10 or more claims of the ’439 Patent under 35 U.S.C. § 271(b). On information and
11 belief, one or more of the ’439 Infringing Products of Snap directly and/or indirectly
12 infringe (by induced infringement) at least claims 1, 7, and 13 of the ’439 Patent,
13 literally and/or under the doctrine of equivalents.

14 71. This Complaint will serve as notice to Snap of the ’439 Patent and its
15 infringement should Snap contend that it did not previously have knowledge thereof.

16 72. Snap intentionally encourages and aids at least its users, including
17 advertisers and website and app users, to directly infringe the ’439 Patent.

18 73. Snap provides the ’439 Infringing Products and instructions to its users
19 such that they will use the ’439 Infringing Products in a directly infringing manner.
20 Snap markets the ’439 Infringing Products to its users and provides instructions to its
21 users on how to use the functionality of the ’439 Patent on its website and elsewhere.

22 *See, e.g.,* <https://businesshelp.snapchat.com/en-US/article/create-first-campaign;>
23 <https://forbusiness.snapchat.com/resources/getting-started;>
24 <https://businesshelp.snapchat.com/en-US/article/quick-easy;>
25 <https://businesshelp.snapchat.com/en-US/article/create-first-campaign;>
26 [https://businesshelp.snapchat.com/en-US/a/location-targeting.](https://businesshelp.snapchat.com/en-US/a/location-targeting)

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1 74. Snap users directly infringe by using the '439 Infringing Products in their
2 intended manner. Snap induces such infringement by providing the '439 Infringing
3 Products and instructions to enable and facilitate infringement. On information and
4 belief, Snap specifically intends that its actions will result in infringement of the '439
5 Patent or has taken deliberate actions to avoid learning of infringement.

6 75. Additional allegations regarding Snap's knowledge of the '439 Patent
7 and willful infringement will likely have evidentiary support after a reasonable
8 opportunity for discovery.

9 76. Snap's infringement of the '439 Patent is willful and deliberate, entitling
10 PARC to enhanced damages and attorneys' fees.

11 77. Snap's infringement of the '439 Patent is exceptional and entitles PARC
12 to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C. § 285.

13 78. PARC has been damaged by Snap's infringement of the '439 Patent and
14 will continue to be damaged unless Snap is enjoined by this Court. PARC has suffered
15 and continues to suffer irreparable injury for which there is no adequate remedy at
16 law. The balance of hardships favors PARC, and public interest is not disserved by an
17 injunction.

18 79. PARC is entitled to recover from Snap all damages that PARC has
19 sustained as a result of Snap's infringement of the '439 Patent, including without
20 limitation, lost profits and/or not less than a reasonable royalty.

21 **THIRD CLAIM FOR RELIEF**

22 **INFRINGEMENT OF U.S. PATENT NO. 8,966,362**

23 80. Plaintiff realleges and incorporates by reference the allegations of
24 paragraphs 1-79 of this Complaint.

25 81. The '362 Patent is valid and enforceable under United States Patent
26 Laws.

1 82. PARC owns, by assignment, all right, title, and interest in and to the '362
2 Patent, including the right to collect for past damages.

3 83. A copy of the '362 Patent is attached as Exhibit C.

4 **The '362 Patent**

5 84. The '362 Patent describes, among other things, a method and system for
6 disseminating tagged content over networks. In one embodiment, the '362 Patent
7 describes receiving tagged content where the tag indicates an action to be performed
8 along with a recipient. The '362 Patent further describes processing the tagged content
9 to determine the action to be performed along with the recipient. The tagged content is
10 then disseminated to the recipient.

11 85. In 2007, PARC recognized that “current dissemination mechanisms, such
12 as email, networked file systems, document management systems, or workflow
13 systems suffer from several limitations,” including that “a user is typically required to
14 manually extract the specific content to be shared.” '362 Patent at 1:15-18, 1:21-22.
15 Furthermore, the '362 Patent notes that this “manual process not only is cumbersome,
16 but also makes it difficult to reestablish context for the information or to incorporate
17 responses into the original content when the recipient replies with comments or
18 changes to the shared content.” *Id.* at 1:24-28.

19 86. To address these problems, the '362 Patent “provides a system that
20 facilitates content dissemination.” *Id.* at 1:42-43. The '362 Patent does so by
21 “allow[ing] a user to add a tag to a first document, wherein the tag indicates an
22 operation to be performed on a portion of the document. The system then processes
23 the tag and performs the operation on the document portion based on the tag.” *Id.* at
24 1:44-46.

25 87. The invention of the '362 Patent works, for example, by “allow[ing] a
26 user to add a tag to a first document, wherein the tag indicates an operation to be
27 performed on a portion of the document.” *Id.* at Abstract. Thereafter, the '362
28

1 invention “processes the tag and performs the operation on the document portion
2 based on the tag” *Id.* The invention of the ’362 Patent is advantageous because it may
3 (1) “reduce the amount of information the recipient needs to consider”; (2) “facilitate
4 dissemination of only a portion of a sensitive document”; and (3) “lower[] the barrier
5 to and overhead of information exchange.” *Id.* at 3:21-49.

6 88. In one ’362 Patent embodiment, “an exemplary architecture that
7 facilitates in-document tagging” is disclosed. *Id.* at 7:64-66. Tags can be used to, for
8 instance, share content with another person or group or “to implement other functions,
9 such as annotation services.” *Id.* at 8:24-36, 8:57-67. Users may insert tags by using
10 “a visual representation, such as a drop-down menu, of ready-to-use tags” or by
11 “add[ing] to and/or edit[ing] existing tags.” *Id.* at 11:16-21. Furthermore, “a tag can be
12 formulated in natural language instead of in syntactical specifications.” *Id.* at 9:7-8.

13 89. The ’362 Patent further describes that the tags are processed. This
14 processing can be triggered implicitly or explicitly, including “at pre-determined
15 times...or when the user performs certain operations.” *Id.* at 8:4-14. Once processed,
16 the tagged documents may be disseminated. *Id.* at 8:4-7. As the ’362 Patent describes,
17 “a number of communication services can be used to deliver the content.” *Id.* at 8:17-
18 18.

19 **’362 Patent Allegations**

20 90. Snap designed, implemented, and currently uses a system for allowing
21 users to tag other users or groups, including “mentions,” over its social media
22 platform. “Mentions” allow users to tag friends in snaps uploaded to “Stories.” The
23 mentioned Snapchatter will be notified in a chat window that he/she has been
24 mentioned in a story. See <https://support.snapchat.com/en-US/a/send-snap>; see also
25 [https://www.theverge.com/2018/4/3/17191910/snapchat-friend-tagging-stories-group-](https://www.theverge.com/2018/4/3/17191910/snapchat-friend-tagging-stories-group-video-chat-features)
26 [video-chat-features](https://www.theverge.com/2018/4/3/17191910/snapchat-friend-tagging-stories-group-video-chat-features) (describing Snap’s “Mentions” feature, which allows users to tag
27 others).

1 91. On information and belief after reasonable investigation, Snap’s
2 “Mentions” feature (“’362 Infringing Products”) infringes the ’362 Patent. Snap
3 facilitates content dissemination. For instance, Snap facilitates the sharing of a variety
4 of content, including text, images, video, advertisements, and more, amongst users.
5 *See, e.g.*, <https://support.snapchat.com/en-US/article/send-snap> (discussing how to
6 send a “Snap”).

7 92. Snap receives, within a document editing system, a user input comprising
8 one or more tags to insert inline within a document, wherein the document is
9 formulated in a natural language and wherein a respective tag is at least partly
10 formulated in natural language and is visible to the user, and indicates an action to be
11 performed on a partial portion of the document and a receiving entity corresponding to
12 the action. For instance, Snap receives, within its systems, user snaps/stories that
13 include content such as text, picture, video, advertisements, and “mentions” of another
14 user. The snap is formulated in a natural language and the “mention” is at least partly
15 formulated in natural language visible to the user. The inclusion of a “mention” in a
16 snap/story indicates that the snap/story should, for example, be shared with the
17 mentioned user(s). *See, e.g.*, <https://support.snapchat.com/en-US/a/creative-tools>
18 (explaining how to mention friends in a snap); [https://support.snapchat.com/en-](https://support.snapchat.com/en-US/a/my-story)
19 [US/a/my-story](https://support.snapchat.com/en-US/a/my-story) (explaining how to mention friends in a story);
20 [https://www.theverge.com/2018/4/3/17191910/snapchat-friend-tagging-stories-group-](https://www.theverge.com/2018/4/3/17191910/snapchat-friend-tagging-stories-group-video-chat-features)
21 [video-chat-features](https://www.theverge.com/2018/4/3/17191910/snapchat-friend-tagging-stories-group-video-chat-features) (describing Snap’s “Mentions” feature, which allows users to tag
22 others).

23 93. Snap processes the one or more tags according to one or more rules to
24 determine both the action to be performed on the partial portion of the document and
25 the receiving entity. For instance, Snap processes the one or more “mentions”
26 according to one or more rules when determining to share snaps/stories that contain a
27 “mention” to the mentioned user’s chat. *See, e.g.*, [25](https://support.snapchat.com/en-
28</p></div><div data-bbox=)

1 [US/a/creative-tools](#) (explaining how to mention friends in a snap);
 2 <https://support.snapchat.com/en-US/a/my-story> (explaining how to mention friends in
 3 a story); [https://www.theverge.com/2018/4/3/17191910/snapchat-friend-tagging-
 4 stories-group-video-chat-features](https://www.theverge.com/2018/4/3/17191910/snapchat-friend-tagging-stories-group-video-chat-features) (describing Snap’s “Mentions” feature, which
 5 allows users to tag others).

6 94. Snap disseminates the document portion indicated by the one or more
 7 tags to the corresponding receiving entity to facilitate performing the action specified
 8 in the one or more tags on the document portion. For instance, Snap disseminates the
 9 snap/story indicated by the “mention” to the mentioned user’s chat window and by
 10 sending the mentioned user a mobile notification of the “mention.” *See, e.g.,*
 11 <https://support.snapchat.com/en-US/a/creative-tools> (explaining how to mention
 12 friends in a snap); <https://support.snapchat.com/en-US/a/my-story> (explaining how to
 13 mention friends in a story); <https://support.snapchat.com/en-US/a/ios-notifications>
 14 (discussing notification settings for iOS); [https://support.snapchat.com/en-
 15 US/article/android-notifications](https://support.snapchat.com/en-US/article/android-notifications) (same for Android);
 16 [https://www.theverge.com/2018/4/3/17191910/snapchat-friend-tagging-stories-group-
 17 video-chat-features](https://www.theverge.com/2018/4/3/17191910/snapchat-friend-tagging-stories-group-video-chat-features) (describing Snap’s “Mentions” feature, which allows users to tag
 18 others).

19 95. Snap has infringed and is infringing, individually and/or jointly, either
 20 literally or under the doctrine of equivalents, at least claims 1, 12, and 23 of the ’362
 21 Patent in violation of 35 U.S.C. § 271, *et seq.*, directly and/or indirectly, by making,
 22 using, offering for sale, selling, offering for lease, leasing in the United States, and/or
 23 importing into the United States without authority or license, the Snap Infringing
 24 Products.

25 96. Snap has been, and currently is, an active inducer of infringement of one
 26 or more claims of the ’362 Patent under 35 U.S.C. § 271(b). On information and
 27 belief, one or more of the ’362 Infringing Products of Snap directly and/or indirectly
 28

1 infringe (by induced infringement) at least claims 1, 12, and 23 of the '362 Patent,
2 literally and/or under the doctrine of equivalents.

3 97. This Complaint will serve as notice to Snap of the '362 Patent and its
4 infringement should Snap contend that it did not previously have knowledge thereof.

5 98. Snap intentionally encourages and aids at least its users, including
6 advertisers and website and app users, to directly infringe the '362 Patent.

7 99. Snap provides the '362 Infringing Products and instructions to its users
8 such that they will use the '362 Infringing Products in a directly infringing manner.
9 Snap markets the '362 Infringing Products to its users and provides instructions to its
10 users on how to use the functionality of the '362 Patent on its website and elsewhere.

11 *See, e.g.,* <https://support.snapchat.com/en-US/a/send-snap>;
12 <https://support.snapchat.com/en-US/a/creative-tools>; <https://support.snapchat.com/en-US/a/my-story>;
13 <https://support.snapchat.com/en-US/a/ios-notifications>;
14 <https://support.snapchat.com/en-US/article/android-notifications>.

15 100. Snap users directly infringe by using the '362 Infringing Products in their
16 intended manner. Snap induces such infringement by providing the '362 Infringing
17 Products and instructions to enable and facilitate infringement. On information and
18 belief, Snap specifically intends that its actions will result in infringement of the '362
19 Patent or has taken deliberate actions to avoid learning of infringement.

20 101. Additional allegations regarding Snap's knowledge of the '362 Patent
21 and willful infringement will likely have evidentiary support after a reasonable
22 opportunity for discovery.

23 102. Snap's infringement of the '362 Patent is willful and deliberate, entitling
24 PARC to enhanced damages and attorneys' fees.

25 103. Snap's infringement of the '362 Patent is exceptional and entitles PARC
26 to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C. § 285.

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1 104. PARC has been damaged by Snap’s infringement of the ’362 Patent and
2 will continue to be damaged unless Snap is enjoined by this Court. PARC has suffered
3 and continues to suffer irreparable injury for which there is no adequate remedy at
4 law. The balance of hardships favors PARC, and public interest is not disserved by an
5 injunction.

6 105. PARC is entitled to recover from Snap all damages that PARC has
7 sustained as a result of Snap’s infringement of the ’362 Patent, including without
8 limitation, lost profits and/or not less than a reasonable royalty.

9 **PRAYER FOR RELIEF**

10 WHEREFORE, PARC prays for a judgment in its favor and against Snap and
11 respectfully requests the following relief:

12 1. A judgment declaring that Snap has infringed one or more claims of each
13 of the PARC Patents in this litigation pursuant to 35 U.S.C. §§ 271(a) and/or 271(b);

14 2. An injunction pursuant to 35 U.S.C. § 283 permanently enjoining Snap,
15 its officers, directors, attorneys, agents, servants, employees, parties in privity with,
16 and all persons in active concert or participation with, any of the foregoing, from
17 continued acts of infringement, contributing to infringement, or inducing infringement
18 of the PARC Patents in this litigation;

19 3. A judgment requiring Snap to make an accounting of damages resulting
20 from Snap’s infringement of the PARC Patents in this litigation;

21 4. A judgment awarding PARC its damages resulting from Snap’s
22 infringement of the PARC Patents in this litigation, and increasing such damages
23 pursuant to 35 U.S.C. § 284 because of the willful and deliberate nature of Snap’s
24 conduct;

25 5. A judgment requiring Snap to pay PARC’s costs, expenses, and pre-
26 judgment and post-judgment interest for Snap’s infringement of each of the PARC
27 Patents in this litigation;

1 6. A judgment finding that this is an exceptional case and awarding PARC's
2 attorneys' fees pursuant to 35 U.S.C. § 285; and

3 7. Such other relief as the Court deems just and proper.
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5

6 DATED: November 25, 2020

Respectfully submitted,

MCKOOL SMITH, P.C.
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10 BY /s/ Alan P. Block

11 ALAN P. BLOCK

12 ATTORNEYS FOR PLAINTIFF
13 PALO ALTO RESEARCH CENTER INC.
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MCKOOL SMITH, P.C.

DEMAND FOR JURY TRIAL

In accordance with Rule 38 of the Federal Rules of Civil Procedure and Local Rule CV-38-1, Plaintiff respectfully demands a jury trial of all issues triable to a jury.

DATED: November 25, 2020 Respectfully submitted,

MCKOOL SMITH, P.C.

BY /s/ Alan P. Block

ALAN P. BLOCK

ATTORNEYS FOR PLAINTIFF
PALO ALTO RESEARCH CENTER INC.

MCKOOL SMITH, P.C.

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