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18	Corrino Holdings LLC		
19			
	UNITED STATES DISTRICT COURT		
20	FOR THE CENTRA	L DISTRICT OF CALIFORNIA	
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22	CORRINO HOLDINGS LLC,	Case No. 2:18-cv-8546	
23	Plaintiff,		
24	·	COMPLAINT FOR PATENT	
25	V.	INFRINGEMENT	
26	INSTAGRAM, INC. and	HIDV TOTAL DEMANDED	
27	INSTAGRAM, LLC	JURY TRIAL DEMANDED	
	Defendants.		
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COMPLAINT FOR PATENT INFRINGEMENT

1. Plaintiff Corrino Holdings LLC ("Corrino" or "Plaintiff") hereby asserts the following claims for patent infringement against Defendants Instagram, Inc. and Instagram, LLC (collectively, "Instagram" or "Defendants"), and alleges as follows:

SUMMARY

- 2. Corrino owns United States Patent Nos. 6,353,398, 7,843,331, 7,982,599, 7,525,450, and 7,716,149 (collectively, the "Patents-in-Suit").
- 3. Instagram infringes the Corrino Patents-in-Suit by implementing, without authorization, Corrino's proprietary technologies in a number of its commercial products and services, including, *inter alia*, the Instagram mobile application and www.instagram.com website, which are marketed, offered and distributed to users of mobile and other devices throughout the United States, including in this District.
- 4. By this action, Corrino seeks to obtain compensation for the harm Corrino has suffered as a result of Instagram's unauthorized implementation of Corrino's patented technologies.

NATURE OF THE ACTION

- 5. This is a civil action for patent infringement arising under the patent laws of the United States, 35 U.S.C. § 1 *et seq*.
- 6. Instagram has infringed and continues to infringe, has induced and continues to induce infringement of, and has contributed to and continues to contribute to infringement of at least one or more claims of Corrino's Patents-in-Suit at least by making, using, selling, and/or offering to sell its products and services for mobile and other devices in the United States, including in this District.
- 7. Corrino is the legal owner by assignment of the Patents-in-Suit, which were duly and legally issued by the United States Patent and Trademark Office ("USPTO"). Corrino seeks monetary damages for Instagram's infringement of the

Patents-in-Suit.

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including in this District.

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THE PARTIES

LLC (collectively, "Instagram") are a Delaware corporation and limited liability

company, respectively, and wholly owned subsidiaries of Facebook, Inc. with a

principal place of business at 1601 Willow Road, Menlo Park, California 94025.

On information and belief, Instagram operates and owns the website located at

www.instagram.com, and markets, offers, and distributes its website services and

applications such as the Instagram application throughout the United States,

develops, designs, manufactures, distributes, markets, offers to sell and/or sells

infringing products and services in the United States, including in the Central

District of California, and otherwise purposefully directs infringing activities to this

On information and belief, Defendants Instagram, Inc. and Instagram,

On information and belief, Instagram directly and/or indirectly

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8. Plaintiff Corrino Holdings LLC is a Texas limited liability company with its principal place of business at 17330 Preston Road, Suite 200, Dallas, Texas 75252. Corrino is the owner of intellectual property rights at issue in this action.

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District in connection with its products and services.

JURISDICTION AND VENUE

- 11. As this is a civil action for patent infringement arising under the patent laws of the United States, 35 U.S.C. § 1 *et seq.*, this Court has subject matter jurisdiction over the matters asserted herein under 28 U.S.C. §§ 1331 and 1338(a).
- 12. This Court has personal jurisdiction over Instagram, in part because Instagram does continuous and systematic business in this District, including by providing infringing products and services to the residents of the Central District of California that Instagram knew would be used within this District, and by soliciting business from the residents of the Central District of California. For example, Instagram is subject to personal jurisdiction in this Court because, *inter alia*, and

on information and belief, Instagram has a regular and established place of business at its offices in the Central District of California (and elsewhere in the State of California), and directly and through agents regularly does, solicits, and transacts business in the Central District of California (and elsewhere in the State of California), including, for example, through the www.instagram.com website and the Instagram application, which are marketed, offered, and distributed to and utilized by users of mobile and other devices in this District and throughout the State of California.

- 13. In particular, Instagram has committed and continues to commit acts of infringement in violation of 35 U.S.C. § 271, and has made, used, marketed, distributed, offered for sale, sold, and/or imported infringing products in the State of California, including in this District, and engaged in infringing conduct within and directed at or from this District. For example, Instagram has purposefully and voluntarily placed its website and mobile applications into the stream of commerce with the expectation that such an infringing website and mobile applications will be used in this District. Instagram's infringing website and mobile application have been and continue to be distributed to and used in this District. Instagram's acts cause and have caused injury to Corrino, including within this District.
- 14. Venue is proper in this District under the provisions of 28 U.S.C. §§ 1391 and 1400(b) at least because a substantial part of the events or omissions giving rise to the claims occurred in this District, and because Instagram has committed acts of infringement in this District and has a regular and established place of business in this District.

PATENTS-IN-SUIT

The '398 Patent

15. U.S. Patent No. 6,353,398 ("the '398 Patent") is entitled "System for dynamically pushing information to a user utilizing global positioning system," and was issued on March 5, 2002. A true and correct copy of the '398 Patent is attached

as Exhibit A.

- 16. The '398 Patent was filed on October 22, 1999 as U.S. Patent Application No. 09/426,065.
- 17. Corrino is the owner of all rights, title, and interest in and to the '398 Patent, with the full and exclusive right to bring suit to enforce the '398 Patent, including the right to recover for past infringement.
- 18. The '398 Patent is valid and enforceable under United States Patent Laws.
- 19. The '398 Patent recognized problems with conventional global positioning system ("GPS") technology. For instance, the '398 Patent recognized that, while conventional GPS technology could provide users with "location and directional information, more specific and detailed information related to the location is often needed." Exhibit A at 1:21-24.
- 20. In this regard, the '398 Patent discloses, among other things, that "[a] more powerful system is therefore necessary to provide mobile users with specific information relating to the point in time the user is at a specific location." *Id.* at 1:34-37. In other words, the '398 Patent recognized that, because of the shortcomings of conventional GPS technology, "it would be desirable for a system which can provide relevant information to location-specific users at relevant points in time." *Id.* at 1:39-41. The claimed inventions of the '398 Patent involve such a system. The '398 Patent also discloses that "[t]his type of system is currently not provided for with conventional systems." *Id.* at 1:37-38.

The Inventions Claimed in the '398 Patent Improved Technology & Were Not Well-Understood, Routine, or Conventional

21. Given the state of the art at the time of the inventions of the '398 Patent, including the deficiencies in global positioning systems of the time, the inventive concepts of the '398 Patent cannot be considered to be conventional, well-understood, or routine. *See, e.g.*, Exhibit A at 1:15-41. The '398 Patent discloses,

among other things, an unconventional solution to problems arising in the context of GPS-based information delivery systems, namely, that such systems did not provide specific and detailed information relating to the point in time that a user was at a particular geographic location. *See, e.g., id.* at 1:34-41 ("A more powerful system is . . . necessary to provide mobile users with specific information relating to the point in time the user is at a specific location. This type of system is currently not provided for with conventional systems.").

- 22. The '398 Patent offered an unconventional, technological solution to such problems resulting in a more powerful location-based information delivery system than existing GPS-based information delivery systems. *See, e.g., id.* In particular, the '398 Patent provided an unconventional architecture comprising an information delivery system located remotely from users' hand-held mobile devices, in which the information delivery system comprised a system for monitoring the geographic position of such mobile devices and a directed information system for linking relevant information to mobile devices associated with a particular geographic region and facilitating the delivery of the relevant information to devices when located in the particular geographic region. *See, e.g.*, Exhibit A at 2:53-3:33; Claims 1, 7, 8.
- 23. Indeed, it was not well-understood, routine, or conventional at the time of the invention of the '398 Patent to have a "directed information system" configured to (i) link information related to specific location of users' mobile devices, (ii) access a database comprising region-specific information, and (iii) employ push technology to deliver region-specific information to users' mobile devices. *See* Claims 1, 7, 8. Moreover, it was not well-understood, routine, or conventional at the time of the invention of the '398 Patent to have a "directed information system" configured to employ push technology to deliver information at points in time when users' mobile devices are located within a specific region related to that information. *See* Claims 7, 8. Further yet, it was not well-

understood, routine, or conventional at the time of the invention of the '398 Patent to have a system configured to (i) detect movement of users' mobile devices and (ii) employ push technology to deliver information to users' mobile devices, such that (a) information is pushed to a user's mobile device in a first geographical region associated with a first storage data section as the user moves within a predetermined distance of the first geographical region, and (b) information is pushed to the user's mobile device in a second geographical region associated with a second storage data section as the user moves from the first geographical region to within a predetermined distance of the second geographical region. *See* Claim 10. These are just exemplary reasons why the inventions claimed in the '398 Patent were not well-understood, routine, or conventional at the time of the invention of the '398 Patent.

- 24. Additionally, the '398 Patent's more powerful location-based information delivery system improved the user interface of electronics devices (*e.g.*, mobile devices) in that a user would be presented with "relevant visual information related to a particular region at a particular point in time." Exhibit A at 3:20-22. In other words, the '398 Patent's specific improvement over existing technology resulted in a user's electronics device displaying particular information that is most relevant to a user at a given point in time.
- 25. Consistent with the problems addressed being rooted in GPS-based information delivery systems, the '398 Patent's solutions naturally are also rooted in that same technology that cannot be performed solely with pen and paper or in the human mind. Indeed, using pen and paper or a human mind would ignore the stated purpose of the '398 Patent and the problem it was specifically designed to address. Doing so would also run counter to the inventors' detailed description of the inventions and the language of the claims and be a practical impossibility. Likewise, at least because the '398 Patent's claimed solutions address problems rooted in GPS-based information delivery systems, these solutions are not merely

drawn to longstanding human activities.

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The '331 Patent

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- U.S. Patent No. 7,843,331 ("the '331 Patent") is entitled "System for dynamically pushing information to a user utilizing global positioning system," and was issued on November 30, 2010. A true and correct copy of the '331 Patent is attached as Exhibit B.
- 27. The '331 Patent was filed on April 15, 2004 as U.S. Patent Application No. 10/824,962, which is a continuation of U.S. Patent Application No. 09/523,022, filed on March 10, 2000, and now U.S. Patent No. 6,741,188, which is a continuation-in-part of U.S. Patent Application No. 09/426,065, filed October 22, 1999, and now the '398 Patent.
- 28. Corrino is the owner of all rights, title, and interest in and to the '331 Patent, with the full and exclusive right to bring suit to enforce the '331 Patent, including the right to recover for past infringement.
- 29. The '331 Patent is valid and enforceable under United States Patent Laws.
- 30. Corrino incorporates by reference and re-alleges the foregoing paragraph numbers 19-25 of this Complaint as if fully set forth herein.
- Like the inventions claimed in the '398 Patent—a parent to the '331 31. Patent—the inventions claimed in the '331 Patent were not well-understood, routine, or conventional.
- 32. Indeed, it was not well-understood, routine, or conventional at the time of the invention of the '331 Patent to have a system configured to initiate the transmission of information to a user's communications device if the communications device's indicated geographic position changes from a first position that is greater than a predefined distance from a geographic region associated with an information source to a second position that is within a predefined distance from a geographic region associated with the information

source. See Claims 1, 11, 21. Moreover, it was not well-understood, routine, or conventional at the time of the invention of the '331 Patent to have a system configured to (i) maintain an index of information sources, each of which is associated with at least one geographic region and a demographic code, and (ii) initiate the transmission of the information to the user's communications device in which the source of that information is associated with a demographic code associated with the communications device. See Claims 7, 17. Further yet, it was not well-understood, routine, or conventional at the time of the invention of the '331 Patent to have a system configured to initiate the transmission of the information to the user's communications device in which the information is based on the day and time that the communications device is geographic position changes from the first position to the second position. See Claims 9, 19. These are just exemplary reasons why the inventions claimed in the '331 Patent were not well-understood, routine, or conventional at the time of the invention of the '331 Patent.

The '599 Patent

- 33. U.S. Patent No. 7,982,599 ("the '599 Patent") is entitled "System for dynamically pushing information to a user utilizing global positioning system," and was issued on July 19, 2011. A true and correct copy of the '599 Patent is attached as Exhibit C.
- 34. The '599 Patent was filed on March 10, 2008 as U.S. Patent Application No. 12/045,601, which is a continuation of U.S. Patent Application No. 10/824,962, filed on April 15, 2004, and now the '331 Patent, which is a continuation of U.S. Patent Application No. 09/523,022, filed on March 10, 2000, and now U.S. Patent No. 6,741,188, which is a continuation-in-part of U.S. Patent Application No. 09/426,065, filed October 22, 1999, and now the '398 Patent.
- 35. Corrino is the owner of all rights, title, and interest in and to the '599 Patent, with the full and exclusive right to bring suit to enforce the '599 Patent, including the right to recover for past infringement.

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- 36. The '599 Patent is valid and enforceable under United States Patent Laws.
- 37. Corrino incorporates by reference and re-alleges the foregoing paragraph numbers 19-25 of this Complaint as if fully set forth herein.
- 38. Like the inventions claimed in the '398 and '331 Patents—parents to the '599 Patent—the inventions claimed in the '599 Patent were not well-understood, routine, or conventional.
- 39. Indeed, it was not well-understood, routine, or conventional at the time of the invention of the '599 Patent to have an apparatus configured to initiate transmission of digital content to a user's wireless communications device in response to determining that the geographic position of the wireless communications device has changed to be within a predefined distance of a geographic area associated with the digital content during a predefined timeframe associated with the digital content. See Claims 1, 10, 19. Moreover, it was not well-understood, routine, or conventional at the time of the invention of the '599 Patent (i) for a user's wireless communications device to be associated with one or more demographic criteria and (ii) to have an apparatus configured to initiate the transmission of the digital content to the user's wireless communications device in which the digital content is associated with at least one demographic criterion of the one or more demographic criteria associated with the wireless communications device. See Claims 2, 11, 20. Further yet, it was not well-understood, routine, or conventional at the time of the invention of the '599 Patent to have an apparatus that is further configured to determine whether a received geographic position of a user's wireless communications device is within a predetermined distance from one or more physical commercial establishments associated with digital content. See Claim 8, 17, 26. These are just exemplary reasons why the inventions claimed in the '599 Patent were not well-understood, routine, or conventional at the time of the invention of the '599 Patent.

The '450 Patent

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- 40. U.S. Patent No. 7,525,450 ("the '450 Patent") is entitled "System for dynamically pushing information to a user utilizing global positioning system," and was issued on April 28, 2009. A true and correct copy of the '450 Patent is attached as Exhibit D.
- 41. The '450 Patent was filed on August 3, 2005 as U.S. Patent Application No. 11/196,206, which is a continuation of U.S. Patent Application No. 10/824,962, filed on April 15, 2004, and now the '331 Patent, which is a continuation of U.S. Patent Application No. 09/523,022, filed on March 10, 2000, and now U.S. Patent No. 6,741,188, which is a continuation-in-part of U.S. Patent Application No. 09/426,065, filed October 22, 1999, and now the '398 Patent.
- Corrino is the owner of all rights, title, and interest in and to the '450 42. Patent, with the full and exclusive right to bring suit to enforce the '450 Patent, including the right to recover for past infringement.
- 43. The '450 Patent is valid and enforceable under United States Patent Laws.
- Corrino incorporates by reference and re-alleges the foregoing 44. paragraph numbers 19-25 of this Complaint as if fully set forth herein.
- 45. Like the inventions claimed in the '398 and '331 Patents—parents to the '450 Patent—the inventions claimed in the '450 Patent were not wellunderstood, routine, or conventional.
- 46. Indeed, it was not well-understood, routine, or conventional at the time of the invention of the '450 Patent to have a system configured to maintain (i) an index of information sources, each of which is associated with (a) a demographic code and (b) one or more location codes, each corresponding to a geographic region and (ii) an index of users' communications devices, each communications device being associated with a demographic code. See Claims 1, 11, 21. Moreover, it was not well-understood, routine, or conventional at the time of the invention of the

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'450 Patent to have a system configured to initiate the transmission of relevant information to a user's communications device in response to receiving (i) an identifier corresponding to the communications device and (ii) an indication of the geographic position of the communications device, where the relevant information originates from an information source that is associated with both (i) a location code corresponding to a geographic region within a defined distance from the geographic position specified in the received indication, and (ii) a demographic code associated with the communications device specified in the received indication. See Claims 1, 11, 21. Further yet, it was not well-understood, routine, or conventional at the time of the invention of the '450 Patent to have a system configured to initiate the transmission of the relevant information to the user's communications device in which the relevant information is based on the time and day that the indication of the geographic position of the communications device is received. See Claims 2, 12. These are just exemplary reasons why the inventions claimed in the '450 Patent were not well-understood, routine, or conventional at the time of the invention of the '450 Patent.

The '149 Patent

- 47. U.S. Patent No. 7,716,149 ("the '149 Patent") is entitled "Method, device, and program product for a social dashboard associated with a persistent virtual environment," and was issued on May 11, 2010. A true and correct copy of the '149 Patent is attached as Exhibit E.
- 48. The '149 Patent was filed on April 11, 2006 as U.S. Patent Application No. 11/402,399.
- 49. Corrino is the owner of all rights, title, and interest in and to the '149 Patent, with the full and exclusive right to bring suit to enforce the '149 Patent, including the right to recover for past infringement.
- 50. The '149 Patent is valid and enforceable under United States Patent Laws.

- 51. The '149 Patent discloses, among other things, "a user interface for monitoring the social health of a persistent virtual environment." Exhibit E at Abstract. The '149 Patent also states that "no diagnostic tools are available to timely measure the social aspects of player interactions in [a] persistent virtual environment or to measure or monitor the health of the online player community in a persistent virtual environment." *Id.* at 1:48-52. In other words, as described in the '149 Patent, the conventional "analysis results only reflect the state of the persistent virtual environment at the time the data was collected," and therefore, "the analysis is not timely, has no capability to forecast problems, and only operates from single source of information." *Id.* at 1:58-61.
- 52. In discussing the shortcomings of the prior art, the '149 Patent recognizes that "it would be advantageous to provide a way to timely monitor persistent virtual environments and to measure, monitor, and treat the health of online player communities within persistent virtual environments." Exhibit E at 2:19-22. The claimed invention of the '149 Patent provides such a mechanism.

The Inventions Claimed in the '149 Patent Improved Technology & Were Not Well-Understood, Routine, or Conventional

- Patent, including the deficiencies in monitoring technology for virtual persistent environments, the inventive concepts of the '149 Patent cannot be considered to be conventional, well-understood, or routine. *See*, *e.g.*, Exhibit E at 1:48-52, 1:58-61, 2:19-22. The '149 Patent discloses, among other things, an unconventional solution to problems arising in the context of monitoring virtual persistent environments, namely, that existing monitoring tools were untimely, only monitoring certain aspects, and operating on a narrow source of information. *See*, *e.g.*, *id.* at 1:48-52, 1:58-61.
- 54. The '149 Patent offered a technological solution to such problems resulting in monitoring technology for virtual persistent environments that

addressed these problems and also facilitated providing an improved user interface for electronics devices. In particular, the '149 Patent provided a specific, unconventional solution for monitoring a state of a virtual persistent environment and displaying a limited set of information related to that monitoring to the user which involved "displaying, at a computer system, a visualization that represents a social aspect of said persistent virtual environment," the "visualization responsive to a metric" and "represents an overall interactivity level," and "displaying, at the computer system, responsive to [a] selection command, a second visualization that represents drill-down information associated with said metric." *See, e.g.*, Exhibit E at Claims 1, 8, 15.

- 55. Indeed, it was not well-understood, routine, or conventional at the time of the invention of the '149 Patent for a computer system to display a visualization that represents a social aspect of a persistent virtual environment, where the visualization is responsive to a metric and represents an overall interactivity level within the persistent virtual environment. *See* Claims 1, 8, 15. Moreover, it was not well-understood, routine, or conventional at the time of the invention of the '149 Patent for a computer system to (i) display the visualization that represents the social aspect of the persistent virtual environment and (ii) responsive to a selection command, display a second visualization that represents drill-down information associated with the metric. *See* Claims 1, 8, 15. These are just exemplary reasons why the inventions claimed in the '149 Patent were not well-understood, routine, or conventional at the time of the invention of the '149 Patent.
- 56. Indeed, the '149 Patent's virtual persistent environment monitoring system improved the user interface of electronics devices by allowing the user to see the most relevant information related to a particular metric representing an interactivity level within the virtual environment. In this respect, the '149 Patent claims recite a particular manner of summarizing and presenting specific, virtual-environment metric related information in electronic devices.

Consistent with the problems addressed being rooted in monitoring

technology for virtual persistent environments – that, by virtue of the monitored

environment being virtual, requires computer network technology – the '149

Patent's solutions naturally are also rooted in that same technology that cannot be

performed solely with pen and paper or in the human mind. Indeed, using pen and

paper or a human mind would ignore the stated purpose of the '149 Patent and the

problem it was specifically designed to address. As such, using pen and paper or a

human mind would not provide a solution to the problem addressed by the '149

Patent and run counter to the inventors' detailed description of the inventions and

the language of the claims and be a practical impossibility. Likewise, at least

because the '149 Patent's claimed solutions address problems rooted in monitoring

technology for virtual persistent environments, these solutions are not merely

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COUNT I: INFRINGEMENT OF U.S. PATENT NO. 6,353,398

drawn to longstanding human activities.

- 58. Corrino incorporates by reference and re-alleges all the foregoing paragraphs of this Complaint as if fully set forth herein.
- 59. Instagram has infringed and is infringing, either literally or under the doctrine of equivalents, the '398 Patent in violation of 35 U.S.C. § 271 *et seq.*, directly and/or indirectly, by making, using, offering for sale, or selling in the United States, and/or importing into the United States without authority or license, products and services that direct location-based information to location-specific users, including the www.instagram.com website and Instagram mobile application (hereinafter "the Accused Products"), that infringe at least one or more claims of the '398 Patent.
- 60. As just one non-limiting example, set forth below (with claim language in bold and italics) is a description of infringement of exemplary claim 1 of the '398 Patent in connection with the Accused Products. This description is based on publicly available information. Corrino reserves the right to modify this

description, including, for example, on the basis of information about the Accused Products that it obtains during discovery.

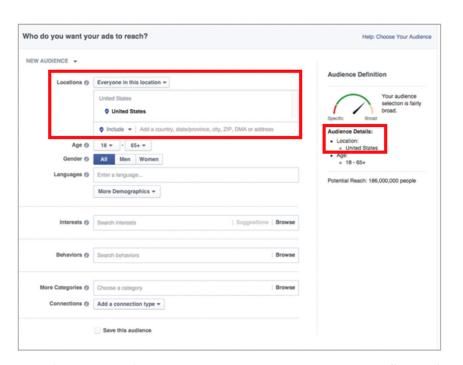
Instagram is a social networking platform that provides services by which certain Instagram users (e.g., Instagram advertisers) can target other Instagram users such that those users' communications devices receive the advertisers' advertisements when certain predefined conditions are met. An example of such a service is Instagram's location targeting service. Instagram at least uses a system configured in accordance with claim 1 to facilitate providing the location targeting service for one or more Instagram advertisers.

Indeed, Instagram encourages Instagram advertisers to "[m]ake your ads reach the exact audience you want using our precise targeting options." https://business.instagram.com/advertising/#precise-targeting. One such targeting option allows Instagram advertisers to "[t]arget people based in specific locations like states, provinces, cities or countries." *Id.* Instagram advertisers "can create ads for Instagram . . . by using ad creation in Facebook Ads Manager or the ads API." https://help.instagram.com/15542450148 70700/?helpref=hc_fnav&bc[0]=Instagram%20Help&bc[1]=Instagram%20 for%20Businesses; *see also, e.g.*, https://business.instagram.com/advertising ("Instagram uses the same powerful advertising tools as Facebook. That way, you can set up, run and track campaigns the same way you do with Facebook ads. If you're new to advertising on Instagram or even Facebook, here's how to get started.").

1(b): a system for locating and transmitting information to location-specific users; and—Instagram at least uses a system (e.g., one or more servers) comprising a system for locating and transmitting information to location-specific users.

1 For instance, on information and belief, when an Instagram user's 2 wireless communications device has Instagram's location services enabled, 3 one or more servers monitor (i.e., locate) the geographic position of the 4 wireless communications device and transmit information 5 advertisements) to the user's wireless communications device to facilitate 6 Instagram's location targeting service. See, e.g., https://help.instagram.com/ 7 171821142968851?helpref=search&sr=1&guery=%20location%20services 8 (explaining how an Instagram user can enable or disable Instagram's location 9 services using an iPhone). In this respect, the one or more servers are 10 configured to receive geographic position data for the wireless communications devices of Instagram users that have not opted out of 11 allowing Instagram to use location services. See, e.g., https://www.facebook 12 .com/business/a/location-targeting ("Location targeting [available through 13 14 Facebook's Ads Manager] helps you find people where you do business, 15 helping you create ads that are relevant to people based on their location."). Indeed, Facebook explains that "[t]he choices for audiences within a location 16 17 are: [1] (Default) Everyone in this location. People whose current city on 18 their Instagram profile is that location, as well as anyone determined to be in 19 that location via mobile device. [2] People who live in this location. People 20 whose current city from their Instagram profile is within that location. This 21 is also validated by IP address and their Instagram friends' stated locations. 22 [3] Recently in this location. People whose most recent location is the selected area, as determined only via mobile device. This includes people 23 who live there or who may be traveling there. [4] People traveling in this 24 25 location. People whose most recent location is the selected area, as determined via mobile device, and are greater than 100 miles from their 26 stated home location from their Instagram profiles." https://www.face 27 28 book.com/business/a/location-targeting.

1(c): a directed information system for linking information related to the location specific users, the directed information system having access to a regionally defined data base for directing region-specific information to location-specific users, and employing push technology to push information to the location-specific users.—Instagram at least uses a system (e.g., one or more servers) comprising a directed information system for linking information related to the location specific users, the directed information system having access to a regionally defined data base for directing region-specific information to location-specific users, and employing push technology to push information to the location-specific users.



For instance, the one or more servers are configured to facilitate providing Instagram's location targeting services that enable an Instagram advertiser's information (e.g., an advertisement) to be provided to a particular "audience" (i.e., wireless communications devices of particular Instagram users). Instagram allows an Instagram advertiser to define the particular "audience" based on a variety of factors (e.g., geographic regions),

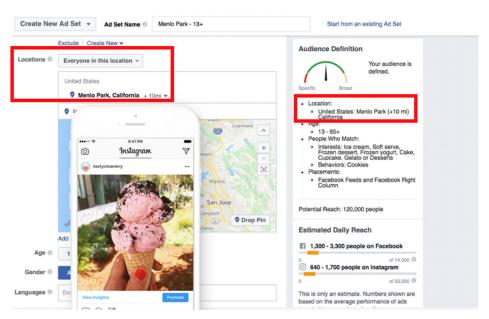
and by doing so, associates the advertiser (and its information) with the factors that define its particular audience. *See, e.g.*, https://www.facebook.c om/business/help/1634705703469129?helpref=faq_content ("The following is a step-by-step guide for creating Instagram ads in ad creation. . . . In the Audience section, create an audience for your ad. You can choose audience characteristics such as age, gender, interests and more.") (geographic region emphasized in red in above screenshot). In this respect, the one or more servers maintain and have access to a database of Instagram advertisers and their respective associations (*e.g.*, geographic-region associations) that facilitates directing region-specific information (*e.g.*, advertisements) to certain Instagram users' wireless communications devices.

An example of a factor by which an Instagram advertiser can define its "audience" is one or more geographic regions. https://business.instagram .com/advertising/#precise-targeting ("Target people based in specific locations like states, provinces, cities or countries."). An Instagram advertiser (and its information) can be associated with one or more geographic regions in a variety of manners.

As one possibility, any Instagram advertiser that utilizes Instagram's "radius targeting" feature is associated with at least one geographic region and defines a corresponding distance around that at least one geographic region. As explained by Facebook, "[1]ocation targeting lets you select your audience within a custom radius from the following locations: [1] Country [2] State or region [3] City [4] DMA®* [(Designated Market Area) regions are the geographic areas in the United States in which local television viewing is measured by Nielsen.] [5] Zip or post code[.]" https://www.facebook.com/business/a/location-targeting.

Instagram provides an example illustration in which an Instagram advertiser becomes associated with a geographic region (e.g., Menlo Park,

California) and in which the advertiser defines a corresponding distance around the region (*e.g.*, 10-mile radius around Menlo Park):



https://business.instagram.com/advertising/#precise-targeting.

On information and belief, to facilitate providing Instagram's location targeting services, the one or more servers are configured to employ push technology to push information (*e.g.*, advertisements) to Instagram users' wireless communications devices that the one or more servers have matched (*i.e.*, linked) to the information of one or more Instagram Advertisers. As one example, when the one or more servers are monitoring the geographic position of a particular communications device of an Instagram user, the one or more servers will link and then push to the particular communications device an Instagram advertiser's advertisement that is associated with the particular geographic region in which the particular communications device is located. *See*, *e.g.*, https://help.instagram.com/162672033874406 ("When does Instagram send push notifications to my device? We may send notifications for several reasons"); https://help.instagram.com/155833707900388 ("A device identifier may deliver information to us or to a third party partner about how you browse and use the Service and may help

- us or others provide reports or personalized content and ads."); https://www.facebook.com/ads/about/?entry_product=ad_preferences ("We use location data to show you ads from advertisers trying to reach people in or near a specific place. We get this information from sources such as: [1] Where you connect to the internet [and 2] Where you use your phone[.]").
- 61. Additionally, Instagram has been, and currently is, an active inducer of infringement of the '398 Patent under 35 U.S.C. § 271(b) and contributory infringer of the '398 Patent under 35 U.S.C. § 271(c).
- 62. Instagram knew of the '398 Patent, or at least should have known of the '398 Patent, but was willfully blind to its existence. On information and belief, Instagram has had actual knowledge of the '398 Patent since at least as early as the filing and/or service of this Complaint.
- 63. Instagram has provided the Accused Products to its customers and, on information and belief, instructions to use the Accused Products in an infringing manner while being on notice of (or willfully blind to) the '398 Patent and Instagram's infringement. Therefore, on information and belief, Instagram knew or should have known of the '398 Patent and of its own infringing acts, or deliberately took steps to avoid learning of those facts.
- 64. Instagram knowingly and intentionally encourages and aids at least its end-user customers to directly infringe the '398 Patent.
- 65. On information and belief, Instagram provides the Accused Products to customers through various third-party application stores (*e.g.*, the Apple iTunes App Store) and instructions to end-user customers so that such customers will use the Accused Products in an infringing manner.
- 66. Instagram's end-user customers directly infringe at least one or more claims of the '398 Patent by using the Accused Products in their intended manner to infringe. Instagram induces such infringement by providing the Accused Products and instructions to enable and facilitate infringement, knowing of, or

- being willfully blind to the existence of, the '398 Patent. On information and belief, Instagram specifically intends that its actions will result in infringement of one or more claims of the '398 Patent, or subjectively believe that their actions will result in infringement of the '398 Patent, but took deliberate actions to avoid learning of those facts, as set forth above.
- 67. Additionally, Instagram contributorily infringes at least one or more claims of the '398 Patent by providing the Accused Products and/or software components thereof, that embody a material part of the claimed inventions of the '398 Patent, that are known by Instagram to be specially made or adapted for use in an infringing manner, and are not staple articles with substantial non-infringing uses. The Accused Products are specially designed to infringe at least one or more claims of the '398 Patent, and their accused components have no substantial non-infringing uses. In particular, on information and belief, the software modules and code that implement and perform the infringing functionalities identified above are specially made and adapted to carry out said functionality and do not have any substantial non-infringing uses.
- 68. Instagram's infringement of the '398 Patent was and continues to be willful and deliberate, entitling Corrino to enhanced damages.
- 69. Additional allegations regarding Instagram's knowledge of the '398 Patent and willful infringement will likely have evidentiary support after a reasonable opportunity for discovery.
- 70. Instagram's infringement of the '398 Patent is exceptional and entitles Corrino to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C. § 285.
- 71. Corrino is in compliance with any applicable marking and/or notice provisions of 35 U.S.C. § 287 with respect to the '398 Patent.
- 72. Corrino is entitled to recover from Instagram all damages that Corrino has sustained as a result of Instagram's infringement of the '398 Patent, including,

without limitation, a reasonable royalty.

COUNT II: INFRINGEMENT OF U.S. PATENT NO. 7,843,331

- 73. Corrino incorporates by reference and re-alleges all the foregoing paragraphs of this Complaint as if fully set forth herein.
- 74. Instagram has infringed and is infringing, either literally or under the doctrine of equivalents, the '331 Patent in violation of 35 U.S.C. § 271 *et seq.*, directly and/or indirectly, by making, using, offering for sale, or selling in the United States, and/or importing into the United States without authority or license, products and services that direct location-based information to location-specific users, including the Accused Products, that infringe at least one or more claims of the '331 Patent.
- 75. As just one non-limiting example, set forth below is a description of infringement of exemplary claim 11 of the '331 Patent in connection with the Accused Products. This description is based on publicly available information. Corrino reserves the right to modify this description, including, for example, on the basis of information about the Accused Products that it obtains during discovery.
 - 11(a): A system comprising—As noted above, Instagram is a social networking platform that provides services by which certain Instagram users (e.g., Instagram advertisers) can target other Instagram users such that those users' communications devices receive the advertisers' advertisements when certain predefined conditions are met. An example of such a service is Instagram's location targeting service. Instagram at least uses a system in accordance with claim 11 to facilitate providing the location targeting service for one or more Instagram advertisers.

Indeed, Instagram encourages Instagram advertisers to "[m]ake your ads reach the exact audience you want using our precise targeting options." https://business.instagram.com/advertising/#precise-targeting. One such targeting option allows Instagram advertisers to "[t]arget people based in

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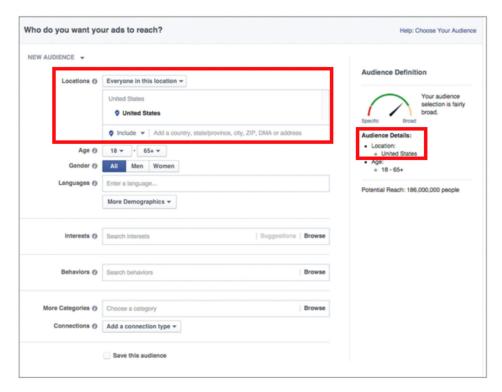
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specific locations like states, provinces, cities or countries." *Id.* Instagram advertisers "can create ads for Instagram . . . by using ad creation in Facebook Ads Manager or the ads API." https://help.instagram.com/15542450148 70700/?helpref=hc_fnav&bc[0]=Instagram%20Help&bc[1]=Instagram%20 for%20Businesses; *see also, e.g.*, https://business.instagram.com/advertising ("Instagram uses the same powerful advertising tools as Facebook. That way, you can set up, run and track campaigns the same way you do with Facebook ads. If you're new to advertising on Instagram or even Facebook, here's how to get started.").

11(b): an information source database comprising an index of information sources, wherein each information source in the index is associated with at least one geographic region; and —Instagram at least uses a system (e.g., one or more servers) comprising an information source database comprising an index of information sources, wherein each information source in the index is associated with at least one geographic region.

For instance, the one or more servers are configured to facilitate providing Instagram's location targeting services that enable an Instagram advertiser's data (e.g., an advertisement) to be provided to a particular "audience" (i.e., wireless communications devices of particular Instagram users). Instagram allows an Instagram advertiser to define the particular "audience" based on a variety of factors (e.g., geographic regions), and by doing so, associates the advertiser (and its data) with the factors that define particular audience. its See, e.g., https://www.facebook.c om/business/help/1634705703469129?helpref=faq content ("The following is a step-by-step guide for creating Instagram ads in ad creation. . . . In the Audience section, create an audience for your ad. You can choose audience characteristics such as age, gender, interests and more.") (geographic region outlined in red below):

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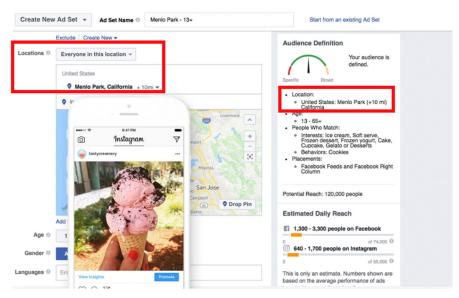
In this respect, the one or more servers are configured to maintain an index of Instagram advertisers and their respective associations (*e.g.*, one or more associated geographic regions).

As noted above, an example of a factor by which an Instagram advertiser can define its "audience" is one or more geographic regions. https://business.instagram.com/advertising/#precise-targeting ("Target people based in specific locations like states, provinces, cities or countries."). An Instagram advertiser (and its information) can be associated with one or more geographic regions in a variety of manners.

As one possibility, any Instagram advertiser that utilizes Instagram's "radius targeting" feature is associated with at least one geographic region and defines a corresponding distance around that at least one geographic region. As explained by Facebook, "[l]ocation targeting lets you select your audience within a custom radius from the following locations: [1] Country [2] State or region [3] City [4] DMA®* [(Designated Market Area) regions are the geographic areas in the United States in which local television

viewing is measured by Nielsen.] [5] Zip or post code[.]" https://www.face book.com/business/a/location-targeting.

Instagram provides an example illustration in which an Instagram advertiser becomes associated with a geographic region (*e.g.*, Menlo Park, California) and in which the advertiser defines a corresponding distance around the region (*e.g.*, 10-mile radius around Menlo Park):



https://business.instagram.com/advertising/#precise-targeting.

11(c): one or more processors configured to initiate the transmission of data to a communications device if the communications device's indicated geographic position changes from a first position that is greater than a predefined distance from a geographic region associated with the at least one information source to a second position that is within a predefined distance from a geographic region associated with the at least one information source.—Instagram at least uses a system (e.g., one or more servers) comprising one or more processors configured to initiate the transmission of data from at least one of the information sources to a communications device if the communications device's indicated geographic position changes from a first position that is greater than a predefined

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distance from a geographic region associated with the at least one information source to a second position that is within a predefined distance from a geographic region associated with the at least one information source.

For example, the one or more servers initiate the transmission of an advertisement of an advertiser that utilizes Instagram's location targeting service to an Instagram user's communication device if the communication device's indicated geographic position changes from being outside of the predefined radius around one of the advertiser's associated geographic regions to being inside of the predefined radius.

For instance, on information and belief, when an Instagram user's wireless communications device has Instagram's location services enabled, one or more servers monitor the geographic position of the wireless communications device and transmit data (e.g., advertisements) to the user's wireless communications device to facilitate Instagram's location targeting service. See, e.g., https://help.instagram.com/171821142968851?helpref= search&sr=1&query=%20location%20services (explaining how an Instagram user can enable or disable Instagram's location services using an iPhone). In this respect, the one or more servers are configured to receive geographic position data for the wireless communications devices of Instagram users that have not opted out of allowing Instagram to use location services. See, e.g., https://www.facebook.com/business/a/location-targeting ("Location targeting [available through Facebook's Ads Manager] helps you find people where you do business, helping you create ads that are relevant to people based on their location."). Indeed, Facebook explains that "[t]he choices for audiences within a location are: [1] (Default) Everyone in this location. People whose current city on their Instagram profile is that location, as well as anyone determined to be in that location via mobile device. [2] People who live in this location. People whose current city from their

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Instagram profile is within that location. This is also validated by IP address and their Instagram friends' stated locations. [3] Recently in this location. People whose most recent location is the selected area, as determined only via mobile device. This includes people who live there or who may be traveling there. [4] People traveling in this location. People whose most recent location is the selected area, as determined via mobile device, and are greater than 100 miles from their stated home location from their Instagram profiles." https://www.facebook.com/business/a/location-targeting.

When the one or more servers are monitoring the geographic position of a particular communications device of an Instagram user, the one or more servers will initiate the transmission of an advertisement for an Instagram advertiser to the particular communications device if the particular communication device's geographic position changes from being outside of the predefined radius around one of the advertiser's associated geographic being inside of the predefined radius. regions See, e.g., https://help.instagram.com/162672033874406 ("When does Instagram send push notifications to my device? We may send notifications for several reasons "); https://help.instagram.com/155833707900388 ("A device identifier may deliver information to us or to a third party partner about how you browse and use the Service and may help us or others provide reports or https://www.facebook. personalized content and ads."); com/ads/about/?entry product=ad preferences ("We use location data to show you ads from advertisers trying to reach people in or near a specific place. We get this information from sources such as: [1] Where you connect and Where internet 2] you use your phone[.]"). https://www.facebook.com/business/a/location-targeting ("Location targeting lets you select your audience within a custom radius from the following locations: [1] Country [2] State or region [3] City [4] DMA®*

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- [(Designated Market Area) regions are the geographic areas in the United States in which local television viewing is measured by Nielsen.] [5] Zip or post code[.]").
- Additionally, Instagram has been, and currently is, an active inducer of infringement of the '331 Patent under 35 U.S.C. § 271(b) and contributory infringer of the '331 Patent under 35 U.S.C. § 271(c).
- Instagram knew of the '331 Patent, or at least should have known of 77. the '331 Patent, but was willfully blind to its existence. On information and belief, Instagram has had actual knowledge of the '331 Patent since at least as early as the filing and/or service of this Complaint.
- 78. Instagram has provided the Accused Products to its customers and, on information and belief, instructions to use the Accused Products in an infringing manner while being on notice of (or willfully blind to) the '331 Patent and Instagram's infringement. Therefore, on information and belief, Instagram knew or should have known of the '331 Patent and of its own infringing acts, or deliberately took steps to avoid learning of those facts.
- Instagram knowingly and intentionally encourages and aids at least its end-user customers to directly infringe the '331 Patent.
- 80. On information and belief, Instagram provides the Accused Products to customers through various third-party application stores (e.g., the Apple iTunes App Store) and instructions to end-user customers so that such customers will use the Accused Products in an infringing manner.
- 81. Instagram's end-user customers directly infringe at least one or more claims of the '331 Patent by using the Accused Products in their intended manner to infringe. Instagram induces such infringement by providing the Accused Products and instructions to enable and facilitate infringement, knowing of, or being willfully blind to the existence of, the '331 Patent. On information and belief, Instagram specifically intends that its actions will result in infringement of at least

one or more claims of the '331 Patent, or subjectively believe that their actions will result in infringement of the '331 Patent, but took deliberate actions to avoid learning of those facts, as set forth above.

- 82. Additionally, Instagram contributorily infringes at least one or more claims of the '331 Patent by providing the Accused Products and/or software components thereof, that embody a material part of the claimed inventions of the '331 Patent, that are known by Instagram to be specially made or adapted for use in an infringing manner, and are not staple articles with substantial non-infringing uses. The Accused Products are specially designed to infringe at least one or more claims of the '331 Patent, and their accused components have no substantial non-infringing uses. In particular, on information and belief, the software modules and code that implement and perform the infringing functionalities identified above are specially made and adapted to carry out said functionality and do not have any substantial non-infringing uses.
- 83. Instagram's infringement of the '331 Patent was and continues to be willful and deliberate, entitling Corrino to enhanced damages.
- 84. Additional allegations regarding Instagram's knowledge of the '331 Patent and willful infringement will likely have evidentiary support after a reasonable opportunity for discovery.
- 85. Instagram's infringement of the '331 Patent is exceptional and entitles Corrino to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C. § 285.
- 86. Corrino is in compliance with any applicable marking and/or notice provisions of 35 U.S.C. § 287 with respect to the '331 Patent.
- 87. Corrino is entitled to recover from Instagram all damages that Corrino has sustained as a result of Instagram's infringement of the '331 Patent, including, without limitation, a reasonable royalty.

COUNT III: INFRINGEMENT OF U.S. PATENT NO. 7,982,599

- 88. Corrino incorporates by reference and re-alleges all the foregoing paragraphs of this Complaint as if fully set forth herein.
- 89. Instagram has infringed and is infringing, either literally or under the doctrine of equivalents, the '599 Patent in violation of 35 U.S.C. § 271 *et seq.*, directly and/or indirectly, by making, using, offering for sale, or selling in the United States, and/or importing into the United States without authority or license, products and services that direct location-based information to location-specific users, including the Accused Products, that infringe at least one or more claims of the '599 Patent.
- 90. As just one non-limiting example, set forth below is a description of infringement of exemplary claim 10 of the '599 Patent in connection with the Accused Products. This description is based on publicly available information. Corrino reserves the right to modify this description, including, for example, on the basis of information about the Accused Products that it obtains during discovery.
 - 10(a): An apparatus comprising:—As noted above, Instagram is a social networking platform that provides services by which certain Instagram users (e.g., Instagram advertisers) can target other Instagram users such that those users' communications devices receive the advertisers' advertisements when certain predefined conditions are met. An example of such a service is Instagram's location targeting service. Instagram at least uses an apparatus (e.g., a server) configured in accordance with claim 10 to facilitate providing the location targeting service for one or more Instagram advertisers.

Indeed, Instagram encourages Instagram advertisers to "[m]ake your ads reach the exact audience you want using our precise targeting options." https://business.instagram.com/advertising/#precise-targeting. One such targeting option allows Instagram advertisers to "[t]arget people based in specific locations like states, provinces, cities or countries." *Id.* Instagram advertisers "can create ads for Instagram . . . by using ad creation in Facebook

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Ads Manager or the ads API." https://help.instagram.com/15542450148 70700/?helpref=hc_fnav&bc[0]=Instagram%20Help&bc[1]=Instagram%20 for%20Businesses; *see also, e.g.*, https://business.instagram.com/advertising ("Instagram uses the same powerful advertising tools as Facebook. That way, you can set up, run and track campaigns the same way you do with Facebook ads. If you're new to advertising on Instagram or even Facebook, here's how to get started.").

10(b): one or more processors configured to receive geographic position data associated with a wireless communications device, and—Instagram at least uses an apparatus (e.g., a server) comprising one or more processors configured to receive geographic position data associated with a wireless communications device.

For instance, on information and belief, when an Instagram user's wireless communications device has Instagram's location services enabled, a server monitors the geographic position of the wireless communications device to facilitate Instagram's location targeting service. See, e.g., https://help.instagram.com/171821142968851?helpref=search&sr=1&query =%20location%20services (explaining how an Instagram user can enable or disable Instagram's location services using an iPhone). In this respect, the server is configured to receive geographic position data for the wireless communications devices of Instagram users that have not opted out of allowing Instagram to use location services. See, e.g., https://www. facebook.com/business/a/location-targeting ("Location targeting [available through Facebook's Ads Manager] helps you find people where you do business, helping you create ads that are relevant to people based on their location."). Indeed, Facebook explains that "[t]he choices for audiences within a location are: [1] (Default) Everyone in this location. People whose current city on their Instagram profile is that location, as well as anyone

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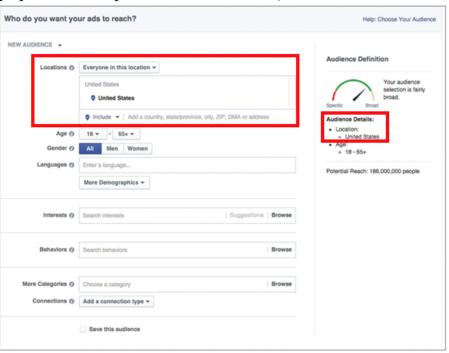
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determined to be in that location via mobile device. [2] People who live in this location. People whose current city from their Instagram profile is within that location. This is also validated by IP address and their Instagram friends' stated locations. [3] Recently in this location. People whose most recent location is the selected area, as determined only via mobile device. This includes people who live there or who may be traveling there. [4] People traveling in this location. People whose most recent location is the selected area, as determined via mobile device, and are greater than 100 miles from their stated home location from their Instagram profiles." https://www.facebook.com/business/a/location-targeting.

10(c): configured to initiate transmission of digital content to the wireless communications device in response to determining that the geographic position of the wireless communications device has changed to be within a predefined distance of a geographic area associated with the digital content during a predefined timeframe associated with the digital content.— Instagram at least uses an apparatus (e.g., a server) comprising one or more processors configured to initiate transmission of digital content to the wireless communications device in response to determining that the geographic position of the wireless communications device has changed to be within a predefined distance of a geographic area associated with the digital content during a predefined timeframe associated with the digital content.

For instance, a server that is configured to facilitate providing Instagram's location targeting services enables an Instagram advertiser's digital content (*e.g.*, an advertisement) to be provided to a particular "audience" (*i.e.*, wireless communications devices of particular Instagram users). Instagram allows an Instagram advertiser to define the particular "audience" based on a variety of factors (*e.g.*, geographic areas), and by

doing so, associates the advertiser (and its digital content) with the factors that define particular audience. its See. e.g., https://www.facebook.com/business/help/1634705703469129?helpref=faq content ("The following is a step-by-step guide for creating Instagram ads in ad creation. . . . In the Audience section, create an audience for your ad. You can choose audience characteristics such as age, gender, interests and more.") (geographic area emphasized in red below): Who do you want your ads to reach? Help: Choose Your Audience Everyone in this location +

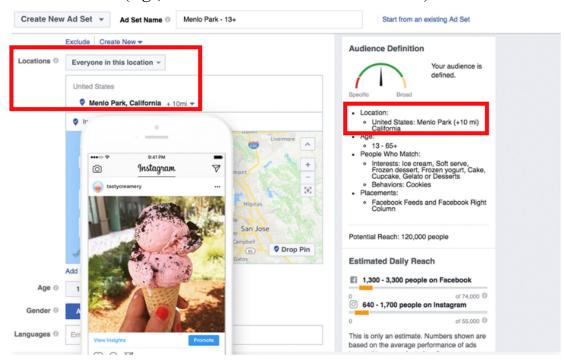


An example of a factor by which an Instagram advertiser can define its "audience" is one or more geographic areas. https://business.instagram. com/advertising/#precise-targeting ("Target people based in specific locations like states, provinces, cities or countries."). An Instagram advertiser can be associated with one or more geographic areas in a variety of manners.

As one possibility, any Instagram advertiser that utilizes a "radius targeting" feature is associated with at least one geographic area and defines a corresponding distance around that at least one geographic area. As explained by Facebook, "[l]ocation targeting lets you select your audience

within a custom radius from the following locations: [1] Country [2] State or region [3] City [4] DMA®* [(Designated Market Area) regions are the geographic areas in the United States in which local television viewing is measured by Nielsen.] [5] Zip or post code[.]" https://www.facebook.com/business/a/location-targeting.

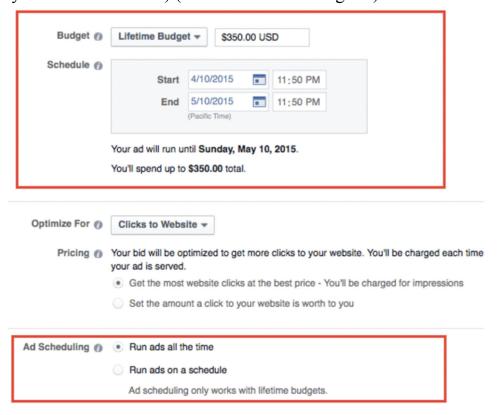
Instagram provides an example illustration in which an Instagram advertiser becomes associated with a geographic area (*e.g.*, Menlo Park, California) and in which the advertiser defines a corresponding distance around the area (*e.g.*, 10-mile radius around Menlo Park):



https://business.instagram.com/advertising/#precise-targeting.

In addition to targeting a particular "audience," Instagram allows an Instagram advertiser to define a particular timeframe during which the advertiser's digital content is to be provided to the particular "audience." For instance, an Instagram advertiser can select particular days and times during which the server is to transmit advertisements to the advertiser's particular "audience," assuming all other conditions are satisfied. *See, e.g.*, https://www.facebook.com/business/help/1634705703469129?helpref=faq_conte

nt ("The following is a step-by-step guide for creating Instagram ads in ad creation. . . . In the Budget & Schedule section, you can choose a budget and set your ad's schedule.") (red outline boxes original):



https://www.facebook.com/business/help/ 1037425549606837 ("You can control both what dates and what times we show your ads. . . . To set start and end dates/times, select Set a start and end date in the 'Schedule' section of ad set creation and choose the start and end dates/times.").

Thus, as one example, the server that facilitates providing Instagram's location targeting service is configured to initiate transmission of an Instagram advertiser's digital content (e.g., advertisement) to the wireless communications device of one of the advertiser's "audience" members in response to determining that the geographic position of the wireless communications device has changed to be within a predefined distance (e.g., radius) of a geographic area associated with the digital content during a predefined timeframe associated with the digital content, in accordance with

- the Instagram location targeting service. See, e.g., https://help.instagram .com/162672033874406 ("When does Instagram send push notifications to my device? We may send notifications for several reasons "); https://help.instagram.com/155833707900388 ("A device identifier may deliver information to us or to a third party partner about how you browse and use the Service and may help us or others provide reports or personalized content and ads."); https://www.facebook.com/ads/about/?entry product =ad preferences ("We use location data to show you ads from advertisers trying to reach people in or near a specific place. We get this information from sources such as: [1] Where you connect to the internet [and 2] Where you use your phone[.]"). https://www.facebook.com/business/a/locationtargeting ("Location targeting lets you select your audience within a custom radius from the following locations: [1] Country [2] State or region [3] City [4] DMA®* [(Designated Market Area) regions are the geographic areas in the United States in which local television viewing is measured by Nielsen.] [5] Zip or post code[.]").
- 91. Additionally, Instagram has been, and currently is, an active inducer of infringement of the '599 Patent under 35 U.S.C. § 271(b) and contributory infringer of the '599 Patent under 35 U.S.C. § 271(c).
- 92. Instagram knew of the '599 Patent, or at least should have known of the '599 Patent, but was willfully blind to its existence. On information and belief, Instagram has had actual knowledge of the '599 Patent since at least as early as the filing and/or service of this Complaint.
- 93. Instagram has provided the Accused Products to its customers and, on information and belief, instructions to use the Accused Products in an infringing manner while being on notice of (or willfully blind to) the '599 Patent and Instagram's infringement. Therefore, on information and belief, Instagram knew or

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should have known of the '599 Patent and of its own infringing acts, or deliberately took steps to avoid learning of those facts.

- 94. Instagram knowingly and intentionally encourages and aids at least its end-user customers to directly infringe the '599 Patent.
- 95. On information and belief, Instagram provides the Accused Products to customers through various third-party application stores (*e.g.*, the Apple iTunes App Store) and instructions to end-user customers so that such customers will use the Accused Products in an infringing manner.
- 96. Instagram's end-user customers directly infringe at least one or more claims of the '599 Patent by using the Accused Products in their intended manner to infringe. Instagram induces such infringement by providing the Accused Products and instructions to enable and facilitate infringement, knowing of, or being willfully blind to the existence of, the '599 Patent. On information and belief, Instagram specifically intends that its actions will result in infringement of at least one or more claims of the '599 Patent, or subjectively believe that their actions will result in infringement of the '599 Patent, but took deliberate actions to avoid learning of those facts, as set forth above.
- 97. Additionally, Instagram contributorily infringes at least one or more claims of the '599 Patent by providing the Accused Products and/or software components thereof, that embody a material part of the claimed inventions of the '599 Patent, that are known by Instagram to be specially made or adapted for use in an infringing manner, and are not staple articles with substantial non-infringing uses. The Accused Products are specially designed to infringe at least one or more claims of the '599 Patent, and their accused components have no substantial non-infringing uses. In particular, on information and belief, the software modules and code that implement and perform the infringing functionalities identified above are specially made and adapted to carry out said functionality and do not have any substantial non-infringing uses.

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- 98. Instagram's infringement of the '599 Patent was and continues to be willful and deliberate, entitling Corrino to enhanced damages.
- 99. Additional allegations regarding Instagram's knowledge of the '599 Patent and willful infringement will likely have evidentiary support after a reasonable opportunity for discovery.
- 100. Instagram's infringement of the '599 Patent is exceptional and entitles Corrino to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C. § 285.
- 101. Corrino is in compliance with any applicable marking and/or notice provisions of 35 U.S.C. § 287 with respect to the '599 Patent.
- 102. Corrino is entitled to recover from Instagram all damages that Corrino has sustained as a result of Instagram's infringement of the '599 Patent, including, without limitation, a reasonable royalty.

COUNT IV: INFRINGEMENT OF U.S. PATENT NO. 7,525,450

- 103. Corrino incorporates by reference and re-alleges all the foregoing paragraphs of this Complaint as if fully set forth herein.
- 104. Instagram has infringed and is infringing, either literally or under the doctrine of equivalents, the '450 Patent in violation of 35 U.S.C. § 271 et seg., directly and/or indirectly, by making, using, offering for sale, or selling in the United States, and/or importing into the United States without authority or license, products and services that direct location-based information to location-specific users, including the Accused Products, that infringe at least one or more claims of the '450 Patent.
- 105. As just one non-limiting example, set forth below is a description of infringement of exemplary claim 11 of the '450 Patent in connection with the Accused Products. This description is based on publicly available information. Corrino reserves the right to modify this description, including, for example, on the basis of information about the Accused Products that it obtains during discovery.

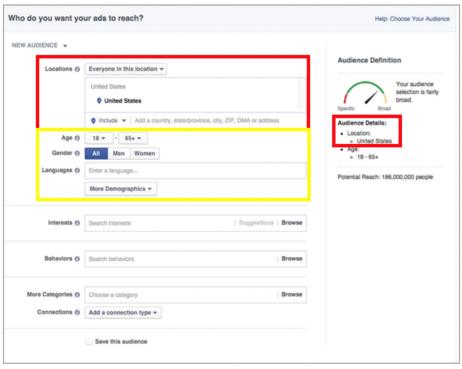
11(a): A system comprising:—As noted above, Instagram is a social networking platform that provides services by which certain Instagram users (e.g., Instagram advertisers) can target other Instagram users such that those users' communications devices receive the advertisers' advertisements when certain predefined conditions are met. An example of such a service is Instagram's location targeting service. Instagram at least uses a system configured in accordance with claim 11 to facilitate providing the location targeting service for one or more Instagram advertisers.

Indeed, Instagram encourages Instagram advertisers to "[m]ake your ads reach the exact audience you want using our precise targeting options." https://business.instagram.com/advertising/#precise-targeting. One such targeting option allows Instagram advertisers to "[t]arget people based in specific locations like states, provinces, cities or countries." *Id.* Instagram advertisers "can create ads for Instagram . . . by using ad creation in Facebook Ads Manager or the ads API." https://help.instagram.com/1554245014870 700/?helpref=hc_fnav&bc[0]=Instagram%20Help&bc[1]=Instagram%20fo r%20Businesses; see also, *e.g.*, https://business.instagram.com/advertising ("Instagram uses the same powerful advertising tools as Facebook. That way, you can set up, run and track campaigns the same way you do with Facebook ads. If you're new to advertising on Instagram or even Facebook, here's how to get started.").

11(b): an information source database comprising an index of information sources, wherein each information source is associated with (i) a demographic code and (ii) one or more location codes, wherein each location code corresponds to a geographic region;—Instagram at least uses a system (e.g., one or more servers) comprising an information source database comprising an index of information sources, wherein each information source is associated with (i) a demographic code and (ii) one or

more location codes, wherein each location code corresponds to a geographic region.

For instance, the one or more servers that are configured to facilitate providing Instagram's location targeting services enable an Instagram advertiser's relevant data (*e.g.*, an advertisement) to be provided to a particular "audience" (*i.e.*, communications devices of particular Instagram users). Instagram allows an Instagram advertiser to define the particular "audience" based on a variety of factors (*e.g.*, geographic regions and demographics), and by doing so, associates the advertiser (and its advertisements) with the factors that define its particular audience. *See*, *e.g.*, https://www.facebook.com/business/help/1634705703469129?helpref=faq_content ("The following is a step-by-step guide for creating Instagram ads in ad creation. . . . In the Audience section, create an audience for your ad. You can choose audience characteristics such as age, gender, interests and more.") (geographic region outlined in red below and example demographic options outlined in yellow below):



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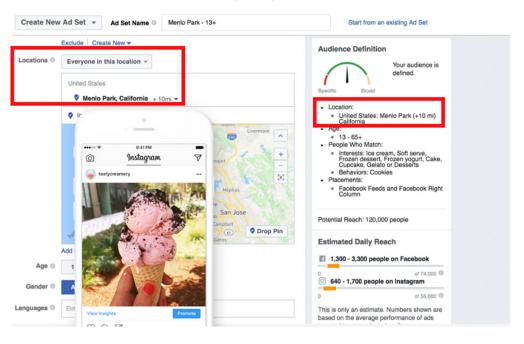
In this respect, the one or more servers are configured to maintain an index of Instagram advertisers and their respective associations (*e.g.*, one or more associated geographic regions and one or more associated demographics).

An example of a factor by which an Instagram advertiser can define its "audience" is one or more demographic criterion. For instance, Instagram explains that its "precise targeting options" include "demographics," "behaviors," "interests," and other among options. https://business.instagram.com/advertising/#precise-targeting. In particular, the demographics option "[n]arrow[s] your audience based on information like age, gender and languages," the interests option "[r]each[es] people based on interests like apps they use, ads they click and accounts they follow," and the behaviors option "[d]efine[s] your audience by activities they do on and off of Instagram and Facebook." Id. An example graphical user interface through which an advertiser is associated with one or more demographic criterion is shown above. The yellow-box annotation identifies where an advertiser searches/browses and selects particular demographic criteria to be associated with. On information and belief, each of Instagram's demographic criterion (discussed above) corresponds to a respective demographic code that is utilized to associate the particular demographic criteria with a given Instagram advertiser. For example, on information and belief, each of the selectable demographic criterion that appear in the yellowbox annotation in the above illustration when the advertiser searches/browses has a corresponding demographic code that becomes associated with the Instagram advertiser when selected. See, e.g., https://developers.facebook .com/docs/marketing-api/guides/instagramads/ads management ("You can use all Facebook targeting options for Instagram campaigns, including: Facebook native basic targeting including interest, behavior, location,

demographic, connections"); https://developers.facebook.com/docs/marketing-api/targeting-search (explaining that each particular demographic criteria has a corresponding "Facebook ID of demographic targeting").

Another example of a factor by which an Instagram advertiser can define its "audience" is one or more geographic regions. https://business.instagram.com/advertising/#precise-targeting ("Target people based in specific locations like states, provinces, cities or countries."). An Instagram advertiser (and its relevant data) can be associated with one or more geographic regions in a variety of manners.

As one possibility, any Instagram advertiser that utilizes a "radius targeting" feature is associated with at least one geographic region and defines a corresponding distance around that at least one geographic region. As explained by Facebook, "[l]ocation targeting lets you select your audience within a custom radius from the following locations: [1] Country [2] State or region [3] City [4] DMA®* [(Designated Market Area) regions are the geographic areas in the United States in which local television viewing is measured by Nielsen.] [5] Zip or post code[.]" https://www.facebook.com/business/a/location-targeting.



As shown above, Instagram provides an example illustration in which an Instagram advertiser becomes associated with a geographic region (*e.g.*, Menlo Park, California) and in which the advertiser defines a corresponding distance around the region (*e.g.*, 10-mile radius around Menlo Park). https://business.instagram.com/advertising/#precise-targeting.

On information and belief, Instagram's geographic regions (discussed above) correspond to respective location codes that are utilized to associate particular geographic regions with Instagram advertisers. *See, e.g.*, https://developers.facebook.com/docs/marketing-api/targeting-search (describing various location codes utilized by Instagram and Facebook, including "region codes" for countries, "city codes" for cities, "locale codes" for locales, etc.).

11(c): a communications device database comprising an index of communications devices, wherein each communications device is associated with a demographic code; and—Instagram at least uses a system (e.g., one or more servers) comprising a communications device database comprising an index of communications devices, wherein each communications device is associated with a demographic code.

For example, Instagram associates users and their respective communications devices with a variety of demographic information, which it uses to personalize Instagram's services for the users, such as by customizing the advertisements provided to the users' communications devices. *See, e.g.*, https://help.instagram.com/155833707900388 ("We collect the following types of information. . . . [1] Your username, password and e-mail address when you register for an Instagram account, [2] Profile information that you provide for your user profile (*e.g.*, first and last name, picture, phone number), . . . [3] When you use a mobile device like a tablet or phone to access our Service, we may access, collect, monitor, store on

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your device, and/or remotely store one or more 'device identifiers.' . . . A device identifier may deliver information to us or to a third party partner about how you browse and use the Service and may help us or others provide reports or personalized content and ads. . . . In addition to some of the specific uses of information we describe in this Privacy Policy, we may use information that we receive to . . . provide personalized content and information to you and others, which could include online ads or other forms of marketing[.]"); https://www.facebook.com/ads/about/?entry product= ad preferences ("Ads are shown to you based on your activity across Facebook companies and products - such as . . . Information from your Facebook and Instagram profile," "Websites you visit or apps you use can send Facebook data directly . . . to help us show you ads based on products or services you've looked at, such as a shirt on a clothing retailer's website. Examples of this include . . . Adding a product to a shopping cart or making a purchase," "Our ad system prioritizes what ad to show you based on what advertisers tell us their desired audience is, and we then match it to people who might be interested in that ad. This means we can show you relevant and useful ads without advertisers learning who you are.").

On information and belief, the various demographic information collected by Instagram on its users to personalize advertisements correspond to respective demographic codes that are utilized to associate particular demographic information with Instagram users and their respective communications devices. *See, e.g.*, https://developers.facebook.com/docs/marketing-api/guides/instagramads/ads_management ("You can use all Facebook targeting options for Instagram campaigns, including: Facebook native basic targeting including interest, behavior, location, demographic, connections"); https://developers.facebook.com/docs/marketing-api/targeting-search (explaining that each particular demographic criteria has a

corresponding "Facebook ID of demographic targeting"). In this respect, the one or more servers that facilitate Instagram's location targeting service are configured to maintain an index of Instagram users' communications devices and their respective associations.

11(d): a processor for initiating the transmission of relevant data to a communications device in response to receiving (i) an identifier corresponding to the communications device and (ii) an indication of the geographic position of the communications device, wherein the relevant data originates from at least one information source that is associated with both (i) a location code corresponding to a geographic region within a defined distance from the geographic position specified in the received and (ii) a demographic code associated with the communications device specified in the received indication.—Instagram at least uses a system (e.g., one or more servers) comprising a processor for initiating the transmission of relevant data to a communications device in response to receiving (i) an identifier corresponding to the communications device and (ii) an indication of the geographic position of the communications device, wherein the relevant data originates from at least one information source that is associated with both (i) a location code corresponding to a geographic region within a defined distance from the geographic position specified in the received indication, and (ii) a demographic code associated with the communications device specified in the received indication.

For example, on information and belief, the one or more servers that facilitate Instagram's location targeting service comprise a processor configured to initiate the transmission of relevant data (e.g., an advertisement) to a communications device in response to receiving (i) an

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identifier corresponding to the communications device and (ii) an indication of the geographic position of the communications device.

For instance, on information and belief, when an Instagram user's communications device has Instagram's location services enabled, the one or more servers receive an identifier corresponding to the communications devices. See, e.g., https://help.instagram.com/155833707900388 ("When you use a mobile device like a tablet or phone to access our Service, we may access, collect, monitor, store on your device, and/or remotely store one or more 'device identifiers.' Device identifiers are small data files or similar data structures stored on or associated with your mobile device, which uniquely identify your mobile device. A device identifier may be data stored in connection with the device hardware, data stored in connection with the device's operating system or other software, or data sent to the device by Instagram. A device identifier may deliver information to us or to a third party partner about how you browse and use the Service and may help us or others provide reports or personalized content and ads. Some features of the Service may not function properly if use or availability of device identifiers is impaired or disabled.").

Moreover, on information and belief, when an Instagram user's wireless communications device has Instagram's location services enabled, the one or more servers monitor the geographic position of the wireless communications device and transmit relevant data (*e.g.*, advertisements) to the user's wireless communications device to facilitate Instagram's location targeting service. *See, e.g.*, https://help.instagram.com/171821142968851 ?helpref=search&sr=1&query=%20location%20services (explaining how an Instagram user can enable or disable Instagram's location services using an iPhone). In this respect, the one or more servers are configured to receive geographic position data for the wireless communications devices of

Instagram users that have not opted out of allowing Instagram to use location services. See, e.g., https://www.facebook.com/business/a/location-targeting ("Location targeting [available through Facebook's Ads Manager] helps you find people where you do business, helping you create ads that are relevant to people based on their location."). Indeed, Facebook explains that "[t]he choices for audiences within a location are: [1] (Default) Everyone in this location. People whose current city on their Instagram profile is that location, as well as anyone determined to be in that location via mobile device. [2] People who live in this location. People whose current city from their Instagram profile is within that location. This is also validated by IP address and their Instagram friends' stated locations. [3] Recently in this location. People whose most recent location is the selected area, as determined only via mobile device. This includes people who live there or who may be traveling there. [4] People traveling in this location. People whose most recent location is the selected area, as determined via mobile device, and are greater than 100 miles from their stated home location from their Instagram profiles." https://www.facebook.com/business/a/location-targeting.

Thus, in response to receiving the device identifier and geographic position indication, the one or more servers that facilitate Instagram's location targeting service are configured to initiate the transmission of a relevant advertisement to the communications device, where the relevant advertisement originates from an Instagram advertiser that is associated with both (i) a location code corresponding to a geographic region within a defined distance from the geographic position specified in the received indication and (ii) a demographic code associated with the communications device specified in the received indication. For instance, as discussed above, an Instagram advertiser can define its particular "audience" based on a variety of factors, including one or more geographic regions and one or more demographics. In

line with the above discussion, along with being associated with one or more geographic regions, the Instagram advertiser can set respective defined distances for the one or more geographic regions. The one or more servers are configured to transmit the Instagram advertiser's advertisement to the communications device when (i) the communications device's geographic position is within any of the advertiser's defined distances corresponding to any of its geographic regions and (ii) a demographic code associated with the communications device corresponds to one or more demographics associated with the advertiser.

- 106. Additionally, Instagram has been, and currently is, an active inducer of infringement of the '450 Patent under 35 U.S.C. § 271(b) and contributory infringer of the '450 Patent under 35 U.S.C. § 271(c).
- 107. Instagram knew of the '450 Patent, or at least should have known of the '450 Patent, but was willfully blind to its existence. On information and belief, Instagram has had actual knowledge of the '450 Patent since at least as early as the filing and/or service of this Complaint.
- 108. Instagram has provided the Accused Products to its customers and, on information and belief, instructions to use the Accused Products in an infringing manner while being on notice of (or willfully blind to) the '450 Patent and Instagram's infringement. Therefore, on information and belief, Instagram knew or should have known of the '450 Patent and of its own infringing acts, or deliberately took steps to avoid learning of those facts.
- 109. Instagram knowingly and intentionally encourages and aids at least its end-user customers to directly infringe the '450 Patent.
- 110. On information and belief, Instagram provides the Accused Products to customers through various third-party application stores (*e.g.*, the Apple iTunes App Store) and instructions to end-user customers so that such customers will use the Accused Products in an infringing manner.

111. Instagram's end-user customers directly infringe at least one or more

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- to infringe. Instagram induces such infringement by providing the Accused Products and instructions to enable and facilitate infringement, knowing of, or being willfully blind to the existence of, the '450 Patent. On information and belief, Instagram specifically intends that its actions will result in infringement of at least one or more claims of the '450 Patent, or subjectively believe that their actions will result in infringement of the '450 Patent, but took deliberate actions to avoid learning of those facts, as set forth above. 112. Additionally, Instagram contributorily infringes at least one or more 11 claims of the '450 Patent by providing the Accused Products and/or software 12 components thereof, that embody a material part of the claimed inventions of the 13 '450 Patent, that are known by Instagram to be specially made or adapted for use 14 in an infringing manner, and are not staple articles with substantial non-infringing
 - uses. The Accused Products are specially designed to infringe at least one or more claims of the '450 Patent, and their accused components have no substantial noninfringing uses. In particular, on information and belief, the software modules and code that implement and perform the infringing functionalities identified above are specially made and adapted to carry out said functionality and do not have any substantial non-infringing uses.
 - 113. Instagram's infringement of the '450 Patent was and continues to be willful and deliberate, entitling Corrino to enhanced damages.
 - 114. Additional allegations regarding Instagram's knowledge of the '450 Patent and willful infringement will likely have evidentiary support after a reasonable opportunity for discovery.
 - 115. Instagram's infringement of the '450 Patent is exceptional and entitles Corrino to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C. § 285.

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116. Corrino is in compliance with any applicable marking and/or notice provisions of 35 U.S.C. § 287 with respect to the '450 Patent.

117. Corrino is entitled to recover from Instagram all damages that Corrino has sustained as a result of Instagram's infringement of the '450 Patent, including, without limitation, a reasonable royalty.

COUNT V: INFRINGEMENT OF U.S. PATENT NO. 7,716,149

- 118. Corrino incorporates by reference and re-alleges all the foregoing paragraphs of this Complaint as if fully set forth herein.
- 119. Instagram has infringed and is infringing, either literally or under the doctrine of equivalents, the '149 Patent in violation of 35 U.S.C. § 271 et seg., directly and/or indirectly, by making, using, offering for sale, or selling in the United States, and/or importing into the United States without authority or license, products and services that direct location-based information to location-specific users, including the Accused Products, that infringe at least one or more claims of the '149 Patent.
- 120. As just one non-limiting example, set forth below is a description of infringement of exemplary claim 1 of the '149 Patent in connection with the Accused Products. This description is based on publicly available information. Corrino reserves the right to modify this description, including, for example, on the basis of information about the Accused Products that it obtains during discovery.
 - 1(a): A computer controlled method for monitoring a persistent virtual environment comprising:—Instagram provides a persistent virtual environment that takes the form of a social online world. For instance, a user subscribes to Instagram's social online world by creating an online entity via an Instagram user account through which the user accesses Instagram's social networking platform via a computing device running a native Instagram app or web browser. Within Instagram's social networking platform, an Instagram user through his/her online entity can virtually

experience new sights and activities, as well as virtually develop social relationships with other registered Instagram users through their respective online entities.

On information and belief, Instagram, through its employees (*e.g.*, software developers, user support staff, etc.), has utilized and/or continues utilizing a computer system (*e.g.*, desktop or laptop computers, mobile phones, tablets, etc.) to perform the computer-controlled method of claim 1, such as (i) during development of Instagram's "Insights," (ii) while developing updates and/or revisions to Insights, and/or (iii) while providing customer support related to Insights.

1(b): displaying, at a computer system, a visualization that represents a social aspect of said persistent virtual environment, said visualization responsive to a metric, wherein said visualization represents an overall interactivity level;—Instagram causes computer systems to display a visualization that represents a social aspect of a persistent virtual environment (i.e., Instagram's social online world), said visualization responsive to a metric, wherein said visualization represents an overall interactivity level.

For example, "Instagram Insights provide information on who your followers are, when they're online and more. You can also view insights for specific posts and stories you've created to see how each performed and how people are engaging with them. You can view insights on posts, stories and your overall account." https://www.facebook.com/help/instagram/788388 387972460?helpref=page_content. As explained by Instagram, "Insights and metrics about your account include paid activity as well. Reach, accounts reached, impressions, and impressions by day reflect both paid and organic activity." *Id*.

Instagram instructs and encourages its users to utilize their computer

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systems to display Instagram Insights visualizations, such as those for a user's posts, stories, and overall account. For example, Instagram instructs and encourages users to access Instagram Insights in at least three different ways:

View insights from your business profile

- 1. Go to your business profile.
- Tap | III | at the top right corner of your Business Profile. From here you can get an overall view of how people are interacting with your Business Profile.
- 3. Select specific posts, stories or promotions you'd like to view insights on.

You can track weekly Impressions, Reach and Profile Visits

You can also see what times during the day your followers engage with you business profile. This can help you decide which times you should post new content from you business profile.

View insights from your post

- 1. Go to your business profile.
- Tap an image you'd like to view insights on. If you see in the bottom-right corner, this means you've promoted the post.
 - If the post has been promoted, you'll be able to see insights for both the original post and
 the promoted post. Tap Original to view insights for the original version of the post. Tap
 Promotion to view insights for the promoted version of the post.
- 3. Below the image, tap View Insights

If you're viewing insights from a post, you'll be able to see impressions, reach, and actions taken on your profile.

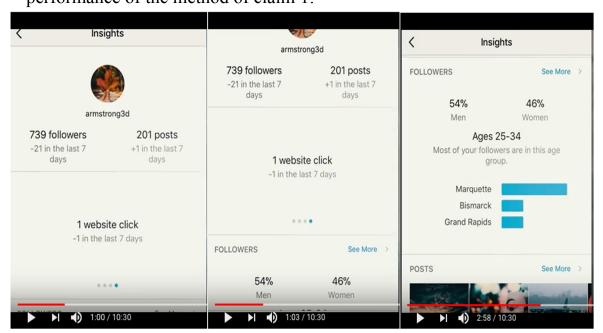
View insights from your story

- 1. Go to your story
- 2. Swipe up on your image or video
- 3. Click III
- 4. View insights on your story

https://www.facebook.com/help/instagram/1533933820244654?helpref=page content.

Each of these three navigation flows results in Instagram's servers causing a computer system to display a variety of Instagram Insights visualizations that represent a social aspect of Instagram's social online world. For example, the first navigation flow results in Instagram's servers causing a computer system to display an "Account" section that includes a

variety of Instagram Insights visualizations that are responsive to metrics and that represent an overall interactivity level, including a "Reach" visualization, a "Website Clicks" visualization, a "Profile Visits" visualization, a "Posts" visualization, and a "Followers" visualization, among various other visualizations. https://www.facebook.com/help/instagram/788388387972460?helpref=page_content. An example of the Account section is provided below, which comes from a user documenting performance of the method of claim 1:



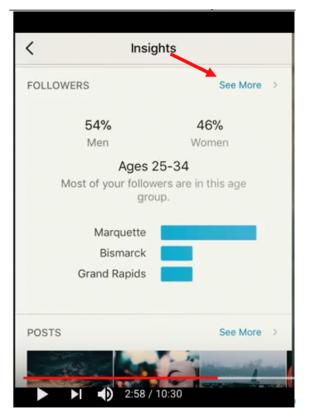
https://www.youtube.com/watch?v=UK4B7oKz6FM.

On information and belief, Instagram facilitates and/or has facilitated the performance of this method step, such as in connection with Instagram Insights, consistent with how Instagram expects and encourages its users to facilitate the performance of this method step.

1(c): receiving a selection command at the computer system; and— Instagram utilizes computer systems to receive a selection command at the computer systems.

Indeed, Instagram instructs and encourages its users to interact with Instagram Insights such that the users' computer systems receive selection

commands, which result in the users viewing additional Instagram Insights information. For instance, Instagram instructs and encourages a user to cause a computer system to receive a selection command corresponding to, for example, a selection of the Followers "See More" icon (identified by the red arrow below).



On information and belief, Instagram facilitates and/or has facilitated the performance of this method step, such as in connection with Instagram Insights, consistent with how Instagram expects and encourages its users to facilitate the performance of this method step.

1(d): displaying, at the computer system, responsive to said selection command, a second visualization that represents drill-down information associated with said metric.—Instagram causes computer systems to display, responsive to said selection command, a second visualization that represents drill-down information associated with said metric.

For example, in response to the computer system receiving the

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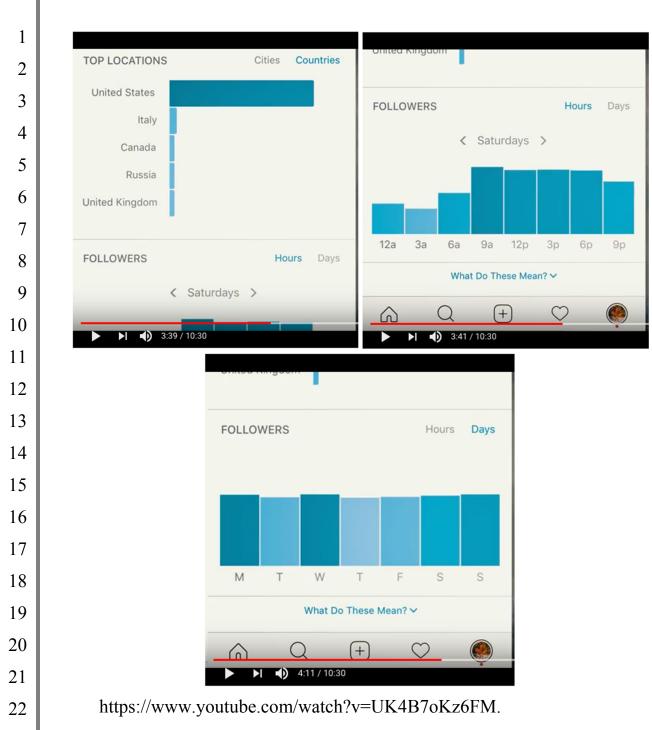
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selection command corresponding to the selection of the See More icon for the Followers Insight, Instagram's servers cause the computer system to display a second visualization that represents drill-down information associated with the Followers metric. An example of a Followers drill-down visualization is provided below.

visualization is provided below. 5 6 < **Followers** 7 739 followers 8 -21 in the last 7 days 9 10 11 **GENDER** 12 13 14 15 16 54% 46% Women 17 Men 18 19 AGE RANGE All Men 20 21 13-17 22 18-24 23 25-34 24 35-44 25 45-54 26 55-64 27 65+

Women



On information and belief, Instagram facilitates and/or has facilitated the performance of this method step, such as in connection with Instagram Insights, consistent with how Instagram expects and encourages its users to facilitate the performance of this method step.

121. Additionally, Instagram has been, and currently is, an active inducer of infringement of the '149 Patent under 35 U.S.C. § 271(b) and contributory

infringer of the '149 Patent under 35 U.S.C. § 271(c).

- 122. Instagram knew of the '149 Patent, or at least should have known of the '149 Patent, but was willfully blind to its existence. On information and belief, Instagram has had actual knowledge of the '149 Patent since at least as early as the filing and/or service of this Complaint.
- 123. Instagram has provided the Accused Products to its customers and, on information and belief, instructions to (i) use the Accused Products in an infringing manner and/or (ii) make an infringing device, while being on notice of (or willfully blind to) the '149 Patent and Instagram's infringement. Therefore, on information and belief, Instagram knew or should have known of the '149 Patent and of its own infringing acts, or deliberately took steps to avoid learning of those facts.
- 124. Instagram knowingly and intentionally encourages and aids at least its end-user customers to directly infringe the '149 Patent.
- 125. On information and belief, Instagram provides the Accused Products to customers through various third-party application stores (*e.g.*, the Apple iTunes App Store) and instructions to end-user customers so that such customers will use the Accused Products in an infringing manner and/or make an infringing device comprising the Instagram www.Instagram.com and www.Instagramchat.com websites and/or mobile application.
- 126. Instagram's end-user customers directly infringe at least one or more claims of the '149 Patent by using the Accused Products in their intended manner to infringe and/or by making an infringing device via downloading the Instagram www.Instagram.com and www.Instagramchat.com websites and/or mobile application. Instagram induces such infringement by providing the Accused Products and instructions to enable and facilitate infringement, knowing of, or being willfully blind to the existence of, the '149 Patent. On information and belief, Instagram specifically intends that its actions will result in infringement of at least one or more claims of the '149 Patent, or subjectively believe that their actions will

result in infringement of the '149 Patent, but took deliberate actions to avoid learning of those facts, as set forth above.

- 127. Additionally, Instagram contributorily infringes at least one or more claims of the '149 Patent by providing the Accused Products and/or software components thereof, that embody a material part of the claimed inventions of the '149 Patent, that are known by Instagram to be specially made or adapted for use in an infringing manner, and are not staple articles with substantial non-infringing uses. The Accused Products are specially designed to infringe at least one or more claims of the '149 Patent, and their accused components have no substantial non-infringing uses. In particular, on information and belief, the software modules and code that implement and perform the infringing functionalities identified above are specially made and adapted to carry out said functionality and do not have any substantial non-infringing uses.
- 128. Instagram's infringement of the '149 Patent was and continues to be willful and deliberate, entitling Corrino to enhanced damages.
- 129. Additional allegations regarding Instagram's knowledge of the '149 Patent and willful infringement will likely have evidentiary support after a reasonable opportunity for discovery.
- 130. Instagram's infringement of the '149 Patent is exceptional and entitles Corrino to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C. § 285.
- 131. Corrino is in compliance with any applicable marking and/or notice provisions of 35 U.S.C. § 287 with respect to the '149 Patent.
- 132. Corrino is entitled to recover from Instagram all damages that Corrino has sustained as a result of Instagram's infringement of the '149 Patent, including, without limitation, a reasonable royalty.

PRAYER FOR RELIEF

WHEREFORE, Corrino respectfully requests:

1	A.	That Judgment be entered that Instagram has infringed at least one or
2		more claims of the Patents-in-Suit, directly and/or indirectly, literally
3		and/or under the doctrine of equivalents;
4	B.	An award of damages sufficient to compensate Corrino for
5		Instagram's infringement under 35 U.S.C. § 284, including an
6		enhancement of damages on account of Instagram's willful
7		infringement;
8	C.	That the case be found exceptional under 35 U.S.C. § 285 and that
9		Corrino be awarded its reasonable attorneys' fees;
10	D.	Costs and expenses in this action;
11	E.	An award of prejudgment and post-judgment interest; and
12	F.	Such other and further relief as the Court may deem just and proper.
13	DEMAND FOR JURY TRIAL	
14		
15	Pursuant to Rule 38(b) of the Federal Rules of Civil Procedure, Corrino respectfully demands a trial by jury on all issues triable by jury.	
16		
17		
18	Respectfully submitted, Dated: October 4, 2018 LEE SULLIVAN SHEA & SMITH LLP and	
19		
20		DEVLIN LAW FIRM
21		
22		By: /s/ Jeffrey F. Craft
23	George I. Lee Jeffrey F. Craft	
24		
25	Attorneys for Plaintiff Corrino Holdings LLC	
26		Cowo Howwings EDC
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