1 2 3 4 5 6 7 8 9	Andrew H. Schapiro (pro hac vice forthcoming) andrewschapiro@quinnemanuel.com Stephen A. Swedlow (pro hac vice forthcoming) stephenswedlow@quinnemanuel.com QUINN EMANUEL URQUHART & SULLIVA 191 N. Wacker Drive, Suite 2700 Chicago, Illinois 60606-1881 Telephone: (312) 705-7400 Fax: (312) 705-7401 Joseph C. Sarles (Bar No. 254750) josephsarles@quinnemanuel.com QUINN EMANUEL URQUHART & SULLIVA 865 South Figueroa Street, 10th Floor Los Angeles, California 90017-2543 Telephone: (213) 443-3000 Fax: (213) 443-3100	ORIGINAL FILED Superior Court of Galifornia County of Lee Angeles JUN 1 2019 Sherri R. Carter, Executive Officer/Clerk By: Tanya Herrera, Deputy
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17	Attorneys for Plaintiff and the Putative Class	
18	SUPERIOR COURT OF THE STATE OF CALIFORNIA	
19	COUNTY OF LOS ANGELES	
20	CENTRAL DISTRICT	
20	R.A., a minor, by and through his	CASE NO. 19STCV20205
22	guardian, Steve Altes, individually and on behalf of all others similarly situated.	CLASS ACTION COMPLAINT
	Plaintiff,	AND DEMAND FOR JURY TRIAL
23	v.	
24	AMAZON.COM, INC., a Delaware	
25	corporation, and A2Z DEVELOPMENT	
26	CENTER, INC., a Delaware corporation,	
27	Defendants.	
28		-

Millions of Americans use Amazon's smart-speaker technology ("Alexa") in their homes. People speak to Alexa-enabled devices such as the Echo or Echo Dot about everything from the mundane ("Alexa, what's the weather?") to the deeply personal ("Alexa, what are the symptoms of depression?").

Most people believe that when they speak to an Alexa-enabled device, it converts their voice into a set of digital computer instructions. They expect that this digital query is sent over the internet for processing, that a digital response is returned, and that the device then converts the response into Alexa's voice. They do not expect that Alexa is creating and storing a permanent recording of their voice. This expectation is reasonable; it would be easy for Alexa to work this way, as numerous other voice-recognition technologies do.

But Alexa does something else. After Alexa processes a user's commands, Amazon saves a permanent recording of the user's voice to its own servers. It then analyzes and uses these voice recordings for its own commercial benefit. These uses include allowing workers around the world to listen to the voice recordings and creating voiceprints of users, which can be used to identify them when they speak to other devices in other locations. Amazon has thus built a massive database of billions of voice recordings containing the private details of millions of Americans.

Amazon purports to obtain consent to record individuals who set up an Alexa-enabled device. But there is a large group of individuals who do not consent to be recorded when using an Alexa-enabled device and who use Alexa without any understanding or warning that Amazon is recording and voiceprinting them: children.

Alexa routinely records and voiceprints millions of children without their consent or the consent of their parents. This practice violates California law, which prohibits the recording of oral communications without the consent of all parties to the communication. This prohibition recognizes the unique privacy interest implicated by the recording of someone's voice. That privacy interest is all the more powerful in light of modern voiceprinting technology and the potentially invasive uses of big data by a company the size of Amazon. It takes no great leap of

imagination to be concerned that Amazon is developing voiceprints for millions of children that could allow the company (and potentially governments) to track a child's use of Alexa-enabled devices in multiple locations and match those uses with a vast level of detail about the child's life, ranging from private questions they have asked Alexa to the products they have used in their home.

Plaintiff R.A. ("Plaintiff"), a minor, by and through his guardian Steve Altes, brings this Class Action Complaint against Defendants Amazon.com, Inc., and a2z Development Center, Inc. d/b/a Amazon Lab126 (collectively "Amazon" or "Defendants") to obtain redress for all California minors who have used Alexa in their home and have therefore been recorded by Amazon, without consent. Plaintiff alleges as follows as to himself, upon personal knowledge of his own acts and experiences, and as to all other matters, upon information and belief, including investigation conducted by his attorneys:

PARTIES

- 1. Plaintiff R.A. and his parent and guardian Steve Altes are natural persons and citizens of the State of California and residents of the County of Los Angeles.
- 2. Defendant Amazon.com, Inc. is a Delaware corporation with its headquarters and principal place of business at 410 Terry Avenue North, Seattle, Washington.
- 3. Defendant a2z Development Center, Inc., d/b/a Amazon Lab126, is a Delaware corporation with its headquarters and principal place of business located at 1120 Enterprise Way, Sunnyvale, California. Amazon Lab126 employs thousands of individuals, many of whom work on Alexa-enabled devices and software at its Sunnyvale headquarters, and is a subsidiary of Amazon.com, Inc.

JURISDICTION AND VENUE

4. This Court has personal jurisdiction over Defendants because they maintain offices in California and have registered to do business therein. Additionally, Defendants engaged in a substantial part of the events and conduct giving rise to Plaintiff's claims in this State, and have knowingly placed Alexa Devices into California's stream of commerce.

5. Venue is proper in this county because Plaintiff and his guardian reside herein, and Plaintiff's injuries were sustained in this county.

FACTUAL BACKGROUND

Amazon and the Alexa Device

- 6. After starting as an online book retailer, Amazon has grown into a dominant force in the retail, internet, and technology sectors. Amazon operates the world's leading e-commerce platform, with net sales of \$232 billion in 2018. Amazon is the world's largest provider of cloud computing services. According to some reports, 42% of the internet is powered by Amazon Web Services, which is more than double Microsoft, Google, and IBM combined. And Amazon also develops technology products including Alexa, the world's leading voice-responsive personal-assistant technology.
- 7. Amazon Lab126, headquartered in Sunnyvale, California, began engineering the Echo "smart speaker" in 2010, eventually leading to Amazon.com, Inc. launching the product and the Alexa voice assistant (also developed by Amazon Lab126) on November 6, 2014, with sales commencing shortly thereafter. Since then, Amazon has launched various additional Echo products, including the Echo Dot, Echo Plus, Echo Sub, Echo Show, and Echo Input. Each Echo device contains a speaker, microphones, a small computer, internet connectivity, and the Alexa program.
- 8. Amazon subsequently added the Alexa program to other Amazon products such as the Amazon Fire TV digital media player. Amazon also allows manufacturers of devices as varied as electrical outlets, lightbulbs, thermostats, and security cameras to offer Alexa integration, allowing users to control those third-party devices through Alexa. And Amazon also

¹ Form 10-K, Amazon.com, Inc., https://www.sec.gov/Archives/edgar/data/1018724/000101872419000004/amzn-20181231x10k.htm.

² Matt Ward, *Amazon: The Company Consuming Consumers*, thinkgrowth.org (Jan. 29, 2018), https://thinkgrowth.org/the-big-4-part-one-amazon-the-company-that-consumes-the-world-fb4679f10708 (las visited May 25, 2019).

now allows manufacturers to offer devices with Alexa "built-in," essentially allowing other speakers and devices to offer much of the functionality of an Echo or Echo Dot³ (collectively, all devices featuring Alexa integration or functionality are referred to herein as "Alexa Devices").⁴

- 9. As of October 2018, Amazon had sold approximately 47 million Echo devices.⁵ In January 2019, Amazon reported that over 100 million total devices had been sold with Alexa pre-installed.⁶
- 10. In the years since the Echo launched, Amazon Lab126 has continued to develop Alexa software updates, and has played an integral role in the development of new Alexa devices.⁷
- 11. Alexa is a natural-language processing system. Alexa "listens" to people's verbal communications and responds to those communications in a simulated human voice. People most frequently interact with Alexa in their homes.

Alistair Charleton, Which Cars Have Amazon Alexa Integration?, Gearbrain (April 29, 2019), https://www.gearbrain.com/which-cars-have-amazon-alexa-2525958778.html (last visited June 10, 2019); James Stables, The Best Amazon Alexa Built-In Speakers, The Ambient (Apr. 8, 2019), https://www.the-ambient.com/guides/best-alexa-built-in-speakers-1196 (last visited June 10, 2019); Dana Kerr and Ben Rubin, Alexa is Coming to Sony Smart TVs, CNET (Sept. 20, 2018, 11:27 a.m. EST), https://www.cnet.com/news/alexa-is-coming-to-tvs-well-at-least-sony-smart-tvs/ (last visited June 10, 2019); Jonathan Vanian, Amazon Alexa is Now Available on HP, Acer, and Asus Computers, Fortune (Jan. 8, 2018), http://fortune.com/2018/01/08/amazon-alexa-hp-acer-asus/ (last visited June 10, 2019).

⁴ For purposes of this Complaint, the term "Alexa Devices" specifically excludes the Amazon Echo Dot Kids Edition.

⁵ Brian Dumaine, *It Might Get Loud: Inside Silicon Valley's Battle to Own Voice Tech*, Fortune (Oct. 24, 2018), http://fortune.com/longform/amazon-google-apple-voice-recognition/ (last visited June 10, 2019).

⁶ Lucase Matney, *More Than 100 Million Alexa Devices Have Been Sold*, Tech Crunch (Jan. 4, 2019) https://techcrunch.com/2019/01/04/more-than-100-million-alexa-devices-have-been-sold/ (last visited June 10, 2019).

⁷ Ry Crist, *Behind the scenes at Alexa's laboratory*, CNet (Apr. 23, 2018), https://www.cnet.com/news/behind-the-scenes-at-amazon-alexa-laboratory-lab126/ (last visited June 10, 2019).

- 12. Using Alexa on an Alexa Device, whether an Amazon device such as an Echo, or a third-party device like a Sonos One speaker, is relatively simple. Once an individual has an Alexa Device, the person needs two more things: a WiFi Internet connection, and the Alexa mobile application (the "Alexa App") installed on his or her smartphone or tablet.
- 13. To use the Alexa App, the individual must have an account with Amazon. The individual must then follow the set-up process on the Alexa Device, which eventually includes pairing the Alexa Device with the Alexa App. For third-party Alexa Devices, the device itself will function even without being paired to the Alexa App, but the Alexa functionality will be disabled.
- 14. Once the individual has paired the Alexa Device to the Alexa App, the Alexa Device is ready for use by anyone, including people who have not set up the Alexa App or consented to being recorded.
- 15. Alexa Devices are designed to record and respond to communications immediately after an individual says a wake word (typically "Alexa" or "Echo").⁸ Alexa Devices accomplish this by storing a second or two of audio in short-term, random-access memory (RAM), analyzing that temporary audio recording for the presence of a wake word, and then overwriting it if the wake word is not recognized. As a result, no permanent recording is supposed to be made if the wake word is not recognized.⁹
- 16. If the wake word is recognized, the Alexa Device records the ensuing communication and—unlike some other smart devices—transmits the recording to Amazon's servers for interpretation and processing before receiving the relevant data back in response.

⁸ Matt Day, Giles Turner, and Natalia Drozdiak, *Amazon Workers Are Listening to What You Tell Alexa*, Bloomberg (Apr. 10, 2019, 5:34 p.m. CDT), https://www.bloomberg.com/news/articles/2019-04-10/is-anyone-listening-to-you-on-alexa-aglobal-team-reviews-audio (last visited June 10, 2019).

⁹ Recent news reports, however, have revealed that Alexa devices regularly "inadvertently" record conversations without prompting by a wake word. *See id.*

17. Once Alexa has responded to a recording sent by an Alexa Device, Amazon indefinitely stores a copy of that recording on its own servers for later use and analysis.

- 18. Amazon uses machine learning to leverage the massive amount of data collected by Alexa Devices—including these permanent voice recordings—to constantly refine the natural language understanding underlying Alexa's functionality. Many recordings are individually reviewed by Amazon employees and part-time contractors in locations as far flung as Costa Rica, India, and Romania.¹⁰
- 19. However, Amazon need not permanently store the audio recordings in order for Alexa Devices to function. Although it would not be as cost-effective or commercially advantageous to Amazon, Alexa Devices could process audio interactions locally on the device and send only a digital query, rather than a voice recording, to Amazon's servers. Indeed, Amazon developed a "Local Voice Control" feature for Alexa Devices that allows individuals "to fulfill a limited set of requests on select [Alexa] devices when the device is not connected to the internet, such as requests to control supported lights, plugs, and switches."
- 20. Amazon could also upload audio recordings to short-term memory in the cloud and immediately overwrite those recordings after processing, much like Alexa constantly overwrites the audio it captures prior to a user saying a wake word. If Amazon did that, it would never possess a permanent recording of any user's communications.
- 21. Many similar "smart speaker" devices are less intrusive than Amazon's Alexa Devices. Apple's natural-language processing system, "Siri," records communications in a similar manner to Alexa, and sends those recordings to Apple's servers.¹² However, Apple

¹⁰ *Id*.

¹¹ Alexa and Alexa Device FAQs, Amazon, https://www.amazon.com/gp/help/customer/display.html?nodeId=201602230 (last visited June 10, 2019).

Lisa Eadicicco, Amazon Workers Reportedly Listen to What You Tell Alexa – Here's How Apple and Google Handle What You Say to Their Voice Assistants, Business Insider (Apr. 15,

stores those recordings in an identifiable form for only a short period of time, and then deletes the recordings entirely.¹³ Likewise, Mercedes has developed voice recognition technology that allows drivers to ask their car for directions, and that offers substantial functionality even when the vehicle lacks an Internet connection (and, therefore, the vehicle cannot transmit a recording).¹⁴

- 22. Amazon has strong commercial incentives to collect as many Alexa recordings as possible. From the outset, Amazon has been a company built on the relentless acquisition of consumer behavioral data, whether through its ubiquitous AWS offerings, its ever-expanding online storefront, its entertainment platforms, and now the Alexa Devices it uses as its ears in every home.
- 23. The collection of Alexa Device recordings is a natural extension of Amazon's *modus operandi*: collect as much consumer data as possible through any means possible, streamline the process so that consumers cannot or will not stop the collection, and use Amazon's massive size to leverage that data more effectively than any of its competitors.
- 24. Simply put, the more data Amazon collects, the more use Amazon has for each incremental data point Amazon collects.
- 25. Amazon's decision to make Alexa integration available to third-party product manufacturers at no cost is entirely consistent with this scheme. While Amazon might have charged some companies a licensing fee for Alexa integration (which its partners would then be able to pass on to consumers who value the extra functionality), it offers that integration free of charge in order to facilitate the rapid adoption of Alexa Devices, the ubiquitous use of Alexa, and the resulting widespread collection of voice recordings of millions of people.

^{2019, 10:39} a.m. EST), https://www.businessinsider.com/how-amazon-apple-google-handle-alexa-siri-voice-data-2019-4 (last visited June 10, 2019).

 $^{^{13}}$ Id

¹⁴ Matt Robinson, *In-Car Voice Control Still Isn't Perfect, But I'm Warming To It*, Car Throttle (March 2019), https://www.carthrottle.com/post/in-car-voice-control-still-isnt-perfect-but-im-warming-to-it/ (last visited June 10, 2019).

Alexa Devices Record Children Without Their Consent

- 26. Alexa devices respond to any individual who says the wake word. Alexa Devices thus record communications involving individuals who did not purchase the device or install the Alexa App.
- 27. But Alexa has the ability to identify different users based on their voiceprint. Through this functionality, Alexa could determine whether or not the person speaking to it has previously registered as a user and agreed to be recorded. When Alexa detects that a user has not agreed to be recorded, it could inform the user that Amazon will make and keep persistent recordings of the user's voice as a condition of use. Alexa could ask the new user to agree to that recording. Or it could deactivate Amazon's permanent recording functionality for such users. But Alexa does not do this.
- 28. At no point does Amazon warn unregistered users that it is creating persistent voice recordings of their Alexa interactions, let alone obtain their consent to do so.
- 29. When children say a wake word to an Alexa Device, the device records and transmits the children's communications in the same manner that it handles adults' communications. Neither the children nor their parents have consented to the children's interactions being permanently recorded.

Facts Specific to Plaintiff R.A.

- 30. Plaintiff is a citizen of the State of California.
- 31. Plaintiff is eight years old.
- 32. Plaintiff's father purchased two Echo Dots in November 2018, giving one to Plaintiff as a Christmas gift that year.
 - 33. Plaintiff's father set up Plaintiff's Echo Dot shortly after Christmas 2018.
- 34. Plaintiff did not set up his Echo Dot, nor did he install the Alexa App on any smartphone or tablet.
- 35. Although Plaintiff was not an Alexa registered user, he uses the Echo Dot a few times a week. Plaintiff, like many children, uses the Echo Dot to play music, to tell him jokes,

and to help with math questions. Plaintiff will also ask the Echo Dot random trivia questions and will test it to see if it recognizes movie references.

- 36. Each time that Plaintiff used the Echo Dot, Amazon recorded his communications and stored those recordings on its servers.
- 37. Plaintiff was unaware that when he spoke a wake word, an Alexa Device would record and store the ensuing private communications.
- 38. Because Plaintiff was not a registered Alexa user, he never agreed to having his communications recorded by Amazon. Plaintiff's parents likewise never agreed to Amazon recording Plaintiff's communications.
- 39. Amazon recorded Plaintiff's private communications without his consent, and without the consent of Plaintiff's parents.

CLASS ACTION ALLEGATIONS

40. Plaintiff brings this action pursuant to California Code of Civil Procedure § 382 individually and on behalf of the following class of similarly situated individuals:

All citizens of the State of California who used a household Amazon Alexa Device while they were minors, but who have not downloaded and installed the Alexa App

- 41. Excluded from each Class are: (1) any Judge or Magistrate presiding over this action and any members of their families; (2) Defendants, Defendants' subsidiaries, parents, successors, predecessors, and any entity in which Defendants or their parents have a controlling interest and their current or former employees, officers, and directors; (3) persons who properly execute and file a timely request for exclusion from the Class; (4) persons whose claims in this matter have been finally adjudicated on the merits or otherwise released; (5) Plaintiff's counsel and Defendants' counsel; and (6) the legal representatives, successors, and assigns of any such excluded persons.
- 42. **Ascertainability:** Membership of in the Class is defined based on objective criteria, and individual members will be identifiable from Defendants' records, which identify home addresses associated with Alexa devices and voiceprints of unique Alexa users.

43. **Numerosity:** The exact number of members of the Class is unknown and unavailable to Plaintiff at this time, but individual joinder in this case is impracticable. The Class likely consists of thousands of individuals, and their members can be identified through Defendants' records.

- 44. **Predominant Common Questions:** The Class's claims present common questions of law and fact, and those questions predominate over any questions that may affect individual Class members. Common questions for the Class include, but are not limited to, the following:
 - a. Whether Alexa Devices make permanent voice recordings of children who interact with them.
 - b. Whether children who use Alexa Devices in their home have an objectively reasonable expectation of confidentiality.
 - c. Whether Amazon fails to obtain consent to record children who are not registered users of Alexa Devices.
- 45. **Typicality:** Plaintiff's claims are typical of the claims of the other members of the proposed Class. Plaintiff and Class members suffered invasions of privacy as a result of Defendants' uniform wrongful conduct.
- 46. Adequate Representation: Plaintiff has and will continue to fairly and adequately represent and protect the interests of the Class, and has retained counsel competent and experienced in complex litigation and class actions. Plaintiff has no interests antagonistic to those of the Class, and Defendants have no defenses unique to Plaintiff. Plaintiff and his counsel are committed to vigorously prosecuting this action on behalf of the members of the Class, and they have the resources to do so. Neither Plaintiff nor his counsel have any interest adverse to those of the other members of the Class.
- 47. **Substantial Benefits:** This class action is appropriate for certification because class proceedings are available to other available methods for the fair and efficient adjudication of this controversy and joinder of all members of the Class is impracticable. This proposed class

action presents fewer management difficulties than individual litigation, and provides the benefits of single adjudication, economies of scale, and comprehensive supervision by a single court. Class treatment will create economies of time, effort, and expense and promote uniform decision-making.

48. Plaintiff reserves the right to revise the foregoing class allegations and definitions based on facts learned and legal developments following additional investigation, discovery, or otherwise.

FIRST CAUSE OF ACTION

Violation of the California Invasion of Privacy Act Cal. Penal Code § 632 (On Behalf of Plaintiff and the Class)

- 49. Plaintiff incorporates by reference the foregoing allegations as if fully set forth herein.
 - 50. Plaintiff and the Class members used Alexa Devices within their families' homes.
- 51. When Plaintiff and the Class members used the Alexa Devices, Amazon created a recording of their device interactions, transmitted those recording to Amazon's cloud servers, and retained copies of those recordings indefinitely.
- 52. Amazon did not warn or otherwise notify Plaintiff and the Class members that Amazon would create persistent recordings of their Alexa interactions.
- 53. Plaintiff and the Class members did not expect, and had no reason to expect, that Amazon would create persistent recordings of their Alexa interactions.
- 54. Plaintiff and the Class members reasonably expected that their Alexa interactions would remain private.
- 55. Plaintiff and the Class members never provided Amazon with consent to record their Alexa interactions, nor did Amazon even attempt to seek such consent. Plaintiff's and the Class members' parents likewise never consented to Amazon recording their children's Alexa interactions.

- 56. Amazon created the recordings of Plaintiff and the Class intentionally, as Amazon has publicly admitted that Alexa Devices are programmed to record every Alexa interaction.
- 57. By creating persistent recordings of Plaintiff's and the Class members' Alexa interactions, Amazon "intentionally and without the consent of all parties to a confidential communication" used an "electronic amplifying or recording device to ... record the confidential communication."
- 58. Amazon's intentional and unlawful recording violated Plaintiff's and the Class members' right to privacy in their confidential communications, as protected by Cal. Penal Code § 632.
- 59. Amazon is able, and the Court should require it, to destroy the recordings of Plaintiff's and the Class members' interactions with Alexa Devices, and to implement functionality sufficient to prevent unauthorized recordings in the future.
- 60. Plaintiff, individually and on behalf of the Class, seeks: (1) an injunction requiring Amazon to obtain consent prior to recording minors' Alexa interactions and to delete those recordings already made, and to implement functionality sufficient to prevent unauthorized recordings in the future; (2) damages of \$5,000 per violation under Cal. Penal Code § 637.2; and (3) costs and reasonable attorneys' fees under Cal. Penal Code § 637.2.

PRAYER FOR RELIEF

WHEREFORE, Plaintiff R.A. on behalf of himself and the proposed Class respectfully requests that the Court enter an order:

- A. Certifying this case as a class action on behalf of the Class defined above, appointing Plaintiff as representative of the Class, and appointing his counsel as class counsel;
- B. Declaring that Amazon's actions, as set out above, violate the state privacy laws cited herein;
- C. Requiring Amazon to delete all recordings of the Class members, and to implement functionality to prevent further recording of the Class members without prior consent;

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