

1 Clement S. Roberts (SBN 209203)
2 *croberts@orrick.com*
3 ORRICK HERRINGTON & SUTCLIFFE LLP
4 405 Howard Street
5 San Francisco, CA 94105
6 Tel: (415) 773-5700 -- Fax: (415) 773-5759

6 Alyssa Caridis (SBN 260103)
7 *acaridis@orrick.com*
8 ORRICK HERRINGTON & SUTCLIFFE LLP
9 777 South Figueroa Street, Suite 3200
10 Los Angeles, CA 90017
11 Tel: (213) 629-2020 -- Fax: (213) 612-2499

11 George I. Lee (*pro hac vice* forthcoming)
12 *lee@ls3ip.com*
13 Sean M. Sullivan (*pro hac vice* forthcoming)
14 *sullivan@ls3ip.com*
15 Rory P. Shea (*pro hac vice* forthcoming)
16 *shea@ls3ip.com*
17 J. Dan Smith (*pro hac vice* forthcoming)
18 *smith@ls3ip.com*
19 LEE SULLIVAN SHEA & SMITH LLP
20 656 W Randolph St, Floor 5W
21 Chicago, IL 60661
22 Tel: (312) 754-0002 -- Fax: (312) 754-0003

23 *Attorneys for Plaintiff Sonos, Inc.*

24 **UNITED STATES DISTRICT COURT**
25 **FOR THE CENTRAL DISTRICT OF CALIFORNIA**

26 SONOS, INC.,

27 Plaintiff,

28 v.

LENBROOK INDUSTRIES LIMITED
and LENBROOK AMERICA CORP.

Defendants.

Case No. 2:19-cv-5411

**COMPLAINT FOR PATENT
INFRINGEMENT**

JURY TRIAL DEMANDED

1 **COMPLAINT FOR PATENT INFRINGEMENT**

2 1. Plaintiff Sonos, Inc. (“Sonos” or “Plaintiff”) hereby asserts the
3 following claims for patent infringement of United States Patent Nos. 8,588,949,
4 9,195,258, 9,219,959, 8,868,698, 9,883,234, 8,938,312, and 9,252,721 (“patents-
5 in-suit”; attached hereto as Exhibits 1-7, respectively) against Defendants Lenbrook
6 Industries Limited and Lenbrook America Corp. (“Defendants”), doing business as
7 Bluesound International (“Bluesound”), and alleges as follows:

8 **INTRODUCTION**

9 2. Sonos was founded in 2002 and is an innovator and industry leader in
10 the field of wireless audio technology. In contrast to conventional home audio
11 systems that required a centralized receiver tied to speakers with a maze of wires,
12 Sonos invented a multi-room wireless home audio system with intelligent,
13 networked playback devices that did not require wired connections to a centralized
14 receiver.

15 3. In this respect, as acknowledged by the media, Sonos reinvented home
16 audio for the digital age. *See, e.g.*, Ex. 8 (2005 *PC Magazine*: describing one of
17 Sonos’s first products as “the iPod of digital audio” for the home and contrasting
18 Sonos with conventional home audio systems that required “dedicated wiring”);
19 Ex. 9 (2013 *NBC News*: “If you’re not familiar with Sonos, this company
20 revolutionized the home audio world a decade ago”); Ex. 10 (2014 *Consumer*
21 *Reports*: “Sonos not only helped to invent the wireless speaker category, the
22 company also set the bar for performance, ease of use, and flexibility.”); Ex. 11
23 (2015 *Men’s Journal*: “Sonos almost singlehandedly established the stand-alone
24 wireless home speaker system category”).

25 4. Since its first product launch in 2005, Sonos has released a wide
26 variety of wireless audio products, including, *inter alia*, the ONE (Gen 1 and Gen
27 2), PLAY:1, PLAY:3, PLAY:5 (Gen 1 and Gen 2), BEAM, PLAYBAR,
28 PLAYBASE, SUB, CONNECT, CONNECT:AMP, and AMP, all of which can be

1 controlled by the Sonos app for iOS, Android, PC, or Mac. *See, e.g.*, Ex. 12-14.
2 Sonos's products have been widely regarded as the best in the industry. *See, e.g.*,
3 Ex. 15 (2018 *What Hi-Fi*: "Sonos is king, but there are pretenders"); Ex. 16
4 (2018 *Digital Trends*: "Sonos is the king of multiroom audio"); Ex. 17 (2019
5 *What Hi-Fi*: "It's facing more competition than ever, but no multi-room offering is
6 as complete or as pleasurable to live with as Sonos.").

7 5. As a pioneer in wireless audio, Sonos has been at the forefront of
8 technological innovation and has diligently worked to protect its inventions.
9 Sonos's patent efforts have earned Sonos a spot on the IPO list of "Top 300
10 Organizations Granted U.S. Patents." *See* Ex. 18. Currently, Sonos is the owner
11 of more than 630 United States Patents related to audio technology, as well as more
12 than 370 pending United States Patent Applications. Many of these patents are
13 identified on the "Patents" webpage of Sonos's website, which includes a table
14 correlating Sonos's patents to its products. *See* Ex. 19. In addition, Sonos encloses
15 notices of its patents with its product inserts/manuals, which state that "[o]ur patent-
16 to-product information can be found here: sonos.com/legal/patents." *See, e.g.*, Ex.
17 12, 20. Sonos also provides a link in the Sonos app to sonos.com/legal through
18 which the "Patents" webpage of Sonos's website can be accessed. *See* Ex. 21.

19 6. Sonos's patents have been recognized as being of the highest quality
20 and utility. For instance, in its analysis of "[t]he technology world's most valuable
21 patent portfolios," IEEE ranked Sonos's patent portfolio second in electronics,
22 behind only Apple. *See* Ex. 22. Moreover, as explained below, the patented
23 inventions embodied in Sonos's products help shape the Sonos experience and have
24 been recognized and praised by the press, Defendants, and other competitors in the
25 wireless audio industry.

26 7. In 2013, more than 10 years after Sonos was founded, Defendants
27 launched their own wireless audio system, called "Bluesound." Defendants'
28 Bluesound system is a line of wireless audio products that includes the PULSE

1 FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i, PULSE, PULSE 2,
2 PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i, PULSE SUB, NODE,
3 NODE 2, NODE 2i, POWERNODE, POWERNODE 2, POWERNODE 2i,
4 VAULT, VAULT 2, VAULT 2i, and any other “BluOS Enabled” or “BluOS
5 Ready” audio player (e.g., the NPM-1) (individually or collectively, “Bluesound
6 Player(s)”), all of which can be controlled by the BluOS Controller app (formerly
7 known as the Bluesound Controller app) for iOS, Android, Kindle, PC, or Mac
8 (individually or collectively, “BluOS Controller App(s)"). *See, e.g.*, Ex. 23-24.
9 Herein, the “Bluesound System” refers to one or more “Bluesound Players” and/or
10 one or more “BluOS Controller Apps.”

11 8. Prior to launching its Bluesound System in 2013, Defendants served
12 as a distributor of Sonos’s wireless audio products in Canada from 2007-2008.
13 Thus, Defendants have had intimate knowledge of Sonos’s wireless audio products
14 and technology since at least 2007, more than six years before Defendants released
15 their first Bluesound products. Moreover, pursuant to Fed. R. Civ. P. 11(b)(3),
16 Defendants’ experience as a Sonos distributor was a catalyst for Defendants’
17 decision to launch the Bluesound System in 2013 and to target the wireless audio
18 market that Sonos created.

19 9. Since its launch, Defendants’ Bluesound System has competed
20 directly with Sonos for the sale of wireless audio products. As correctly observed
21 by *Digital Trends*, the Bluesound System is “aimed squarely at audio fans who like
22 the Sonos model.” *See* Ex. 16. Bluesound’s targeting of Sonos led *Sound and*
23 *Vision* to issue an article entitled “Is Bluesound an Audiophile Sonos Killer?,”
24 which stated that “Bluesound looks to have an array of products that might be the
25 first true high-end challenger to Sonos’ wireless music dominance.” *See* Ex. 25.
26 Echoing this sentiment, *What Hi Fi?* recently stated that “[t]he first genuine threat
27 to Sonos was Bluesound” (*see* Ex. 15), and *T3* reported that Bluesound was a
28 “[v]ery strong Sonos rival” (*see* Ex. 26).

1 10. Instead of innovating to compete fairly with Sonos, however,
 2 Defendants have merely copied Sonos. For example, as *Digital Trends* explained:
 3 “Bluesound has gone out of its way to mimic Sonos’s product line up.” Ex. 16. In
 4 comparing/testing the Sonos and Bluesound products, *Digital Trends* “matched up
 5 a pair of [Sonos] Play:1s, a [Sonos] Play:5, a [Sonos] Play:3, and a [Sonos] PlayBar,
 6 against a pair of [Bluesound] Pulse Flexs, a [Bluesound] Pulse 2, a [Bluesound]
 7 Pulse Mini, and a [Bluesound] Pulse Soundbar. *Id.* *Digital Trends*’ “match[] up”
 8 is illustrated in the images below:



11. Like *Digital Trends*, other media outlets have also “matched up” various Sonos and Bluesound products due to their similarities. For example, in 2013, shortly after the launch of Bluesound, *Electronic House* stated that “[t]he Pulse (\$699) is Bluesound’s all-in-one speaker unit, similar to the Sonos PLAY:5 or PLAY:3.” *See* Ex. 27.

12. In addition to copying Sonos’s product lineup, Defendants have also imitated the look and feel of Sonos’s products and marketing style, which is

1 illustrated in the following marketing images:

2 **SONOS**



11
12
13 **BLUESOUND**



23 13. Pursuant to Fed. R. Civ. P. 11(b)(3), Defendants' copying extended
24 beyond Sonos's product lineup and product/marketing aesthetics, and also included
25 the incorporation of Sonos's patented innovations into the Bluesound System. It is
26 Defendants' copying of Sonos's patented innovations that forms the basis for the
27 present patent infringement claims, as set forth below.

28 14. Moreover, Defendants have had actual and/or constructive knowledge

1 of Sonos's patents prior to the filing of this action. For instance, on November 1,
2 2018, Sonos sent Defendants a letter providing them with notice of infringement of
3 70 Sonos patents, including all 7 of the patents-in-suit. *See* Ex. 28. Likewise, on
4 June 7, 2019, Sonos sent Defendants another letter providing Defendants notice of
5 infringement of another 45 Sonos patents. *See* Ex. 29.

6 15. In addition, Defendants have been aware (or should have been aware)
7 of Sonos's patents well before November 1, 2018 in view of Sonos's previously-
8 filed patent litigation against D&M (another direct competitor of Sonos and
9 Defendants) and its infringing Denon HEOS system – *Sonos Inc. v. D&M Holdings,*
10 *Inc.*, C.A. No. 14-1330-RGA (D. Del.). *See* Ex. 30. This prior litigation lasted over
11 three years, garnered media attention across the industry, and resulted in a jury
12 verdict for Sonos on all counts, including, *inter alia*, willful infringement of two of
13 the patents-in-suit asserted here against Defendants – United States Patent Nos.
14 8,588,949 and 9,195,258. *See, e.g.*, Ex. 31 (2014 *VentureBeat* article entitled
15 “Sonos sues Denon, alleging wireless speaker patent infringement”); Ex. 32 (2014
16 *CNET* article entitled “Sonos sues Denon for ‘copying’ its wireless products”); Ex.
17 33. In addition, Defendants have studied Sonos's litigation against D&M, which,
18 in addition to United States Patent Nos. 8,588,949 and 9,195,258, involved two
19 more of the patents-in-suit asserted here against Defendants – United States Patent
20 Nos. 8,938,312 and 9,219,959 (which were not adjudicated due to settlement).

21 16. Further, Defendants have also been aware (or should have been aware)
22 of Sonos's patents well before Sonos's November 1, 2018 letter in view of Sonos's
23 leading position in the wireless audio industry since its first commercial launch in
24 2005, Defendants' relationship with Sonos from 2007-2008 as a Canadian
25 distributor of Sonos's products, Defendants' direct competition with Sonos since
26 the Bluesound launch in 2013, Sonos's prominent display of its patents on Sonos's
27 website, and Sonos's inclusion of a notice of its patents in Sonos's product
28 inserts/manuals and the Sonos app.

THE PARTIES

1
2 17. Plaintiff Sonos, Inc. is a Delaware corporation with its principal place
3 of business at 614 Chapala Street, Santa Barbara, California 93101. Sonos is the
4 owner of the patents-in-suit.

5 18. Defendant Lenbrook Industries Limited is a Canadian corporation
6 with a principal place of business at 633 Granite Court, Pickering, Ontario Canada,
7 L1W 3K1. Lenbrook Industries Limited does business in the United States,
8 including in the Central District of California, as Bluesound International, and
9 describes Bluesound International as a division of Lenbrook Industries Limited.

10 19. Defendant Lenbrook America Corp. is a Delaware corporation that is
11 registered to do business in California, and has a principal place of business in the
12 Central District of California at 20300 S. Vermont Avenue, Suite 265, Torrance,
13 California, 90502. Lenbrook America Corp. is a subsidiary of Lenbrook Industries
14 Limited and does business in the United States, including in the Central District of
15 California, as Bluesound International.

16 20. Lenbrook Industries Limited and Lenbrook America Corp. directly
17 and/or indirectly develop, design, manufacture, distribute, market, offer to sell, sell,
18 and/or import the Bluesound System in/into the United States, including in the
19 Central District of California, and otherwise purposefully direct infringing activities
20 to this District in connection with the Bluesound System.

JURISDICTION AND VENUE

21
22 21. As this is a civil action for patent infringement arising under the patent
23 laws of the United States, 35 U.S.C. § 1 *et seq.*, this Court has subject matter
24 jurisdiction over the matters asserted herein under 28 U.S.C. §§ 1331 and 1338(a).

25 22. This Court has personal jurisdiction over Defendants Lenbrook
26 Industries Limited and Lenbrook America Corp. because, pursuant to Fed. R. Civ.
27 P. 11(b)(3), Defendants have (1) availed themselves of the rights and benefits of the
28 laws of the State of California, (2) transacted, conducted, and/or solicited business

1 and engaged in a persistent course of conduct in the State of California (and in this
2 District), (3) derived substantial revenue from the sales and/or use of products, such
3 as the Bluesound System, in the State of California (and in this District), (4)
4 purposefully directed activities (directly and/or through intermediaries), such as
5 shipping, distributing, offering for sale, selling, and/or advertising their infringing
6 Bluesound System, at residents of the State of California (and residents in this
7 District), (5) delivered their infringing Bluesound System into the stream of
8 commerce with the expectation that the Bluesound System will be used and/or
9 purchased by consumers, and (6) committed acts of patent infringement in the State
10 of California (and in this District).

11 23. This Court also has personal jurisdiction over Lenbrook America
12 Corp. because it is registered to do business in California and has a regular and
13 established place of business in the Central District of California.

14 24. Venue is proper in this District under the provisions of 28 U.S.C. §§
15 1391(b) and (c) and 28 U.S.C. § 1400(b).

16 PATENTS-IN-SUIT

17 Background

18 25. Sonos was founded on a recognition of various shortcomings of
19 existing conventional audio technology. At the time, a “conventional multi-zone
20 audio system” was based on a “centralized” device that was “hard-wired” to “audio
21 players” in different rooms with dedicated speaker wire. *See, e.g.*, ‘949 Patent at
22 1:41-47, 1:57-60; *see also, e.g.*, ‘959 Patent at 6:54-61. These “audio players” were
23 basic “speakers” that passively received and outputted audio signals but lacked
24 processing capabilities. *See, e.g.*, ‘949 Patent at 1:41-60.

25 26. In this conventional “hard-wired” configuration, each audio player
26 relied on a “centralized” device that managed and controlled the multi-zone audio
27 system with audio sources either hard-wired to the “centralized” device, which
28 made playing different audio sources at different audio players difficult (if not

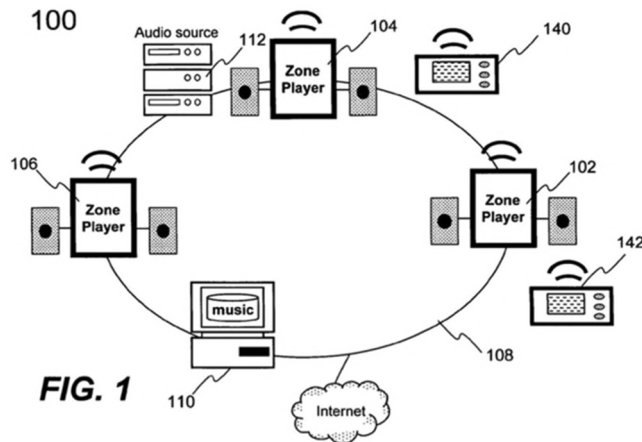
1 impossible), or hard-wired locally at a given audio player, which “[made] source
2 sharing difficult.” *See, e.g.*, ‘949 Patent at 1:45-56. For example, before an audio
3 player could play audio from a source, a user had to configure the centralized device
4 to route audio to the audio player from the common source. *See, e.g., id.* at 1:50-
5 60.

6 27. Thus, in these conventional “hard-wired” systems, it was difficult (or
7 impossible) to play different audio sources on different audio players, “group” and
8 control audio players, access and play networked-based audio sources (e.g., Internet
9 radio), and install and configure the system in the first instance, which required
10 physically connecting every device to the “centralized” device. *See, e.g.*, ‘949
11 Patent at 1:34-2:13; ‘959 Patent at 6:52-61.

12 28. As recognized in 2005 when Sonos released its first products, Sonos
13 revolutionized the field of home audio by developing new technological solutions
14 to various problems with conventional audio systems. Moreover, Sonos’s own
15 introduction of paradigm-shifting technology created new technological challenges
16 that Sonos further solved.

17 29. For starters, Sonos provided an unconventional system architecture
18 comprising “zone players” (also referred to as “playback devices”) on a computer
19 data network and controlled by physical “controller” devices. *See, e.g.*, ‘949 Patent
20 at FIG. 1; ‘258 Patent at FIG 1. The following figure illustrates a simplified
21 diagram of an exemplary Sonos audio system in accordance with this new system
22 architecture, which comprises “zone players” 102-106 and “controllers” 140-42
23 coupled to one another by a local data network 108 and two local audio sources
24 110-12 along with a connection to the Internet:

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‘949 Patent at FIG. 1; *see also, e.g.*, ‘258 Patent at FIG. 1.

30. Unlike audio players in conventional “centralized,” “hard-wired” multi-zone audio systems, Sonos’s “zone players” were “independent playback devices” with a data network interface and processing intelligence enabling each “zone player” to independently access and play back any audio source available on a local data network or another data network coupled thereto (e.g., the Internet) without a centralized device. *See, e.g.*, ‘949 Patent at 4:60-64, 5:2-36, 9:50-52, Claims 1, 8, 15; ‘258 Patent at 1:33-44, 2:40-3:22, Claims 1, 11, 17.

31. The new, unconventional nature of Sonos’s “zone players” introduced additional technological challenges to Sonos’s system, which required Sonos’s “zone players” to need new intelligence enabling the “zone players” to “share information” with one another so that they can “reproduce audio information synchronously,” among other unconventional capabilities. *See, e.g.*, ‘258 Patent at 31:34-41. Thus, Sonos’s new system featured “zone players” that could simultaneously play different audio from different sources or be “grouped” together to play the same audio source in a synchronized manner. *See, e.g.*, ‘258 Patent at FIG. 1, 3:50-61, 4:22-50, 5:10-6:64, Claims 1, 11, 17; ‘949 Patent at 2:28-48, 9:49-59, Claims 1, 8, 15.

32. Further, unlike the “pre-configured and pre-programmed

1 controller[s]” used to control conventional “centralized,” “hard-wired” audio
2 systems, Sonos’s “controller” devices were capable of remotely controlling any
3 “zone player” in a Sonos audio system from anywhere in a user’s house via a data
4 network. *See, e.g.*, ‘949 Patent at 6:43-60; *see also, e.g.*, ‘258 Patent at 5:27-29,
5 5:38-40, 6:37-46. Building on the intelligence of Sonos’s new “zone players,”
6 Sonos’s “controllers” had new capabilities, including dynamically “grouping the
7 zone players” and “control[ing] the volume of each of the zone players in a zone
8 group individually or together.” ‘949 Patent at 6:43-60; *see also, e.g.*, ‘258 Patent
9 at FIG. 1, 3:50-61, 4:22-50, 5:10-6:64, 9:17-26, Claims 1, 11, 17.

10 33. Thus, Sonos’s audio system comprising networked “zone players”
11 controlled by physical “controllers” over a data network provided an entirely new
12 paradigm in home audio that improved upon the technological deficiencies of
13 conventional audio systems. Moreover, Sonos’s unconventional system
14 architecture created new technological challenges that Sonos also provided
15 solutions for. As discussed in further detail below, Sonos’s patents-in-suit are
16 directed to solutions to these technological challenges.

17 **U.S. Patent No. 8,588,949**

18 34. Sonos is the owner of U.S. Patent No. 8,588,949 (the “‘949 Patent”),
19 entitled “Method and Apparatus for Adjusting Volume Levels in a Multi-Zone
20 System,” which was duly and legally issued by the United States Patent and
21 Trademark Office (“USPTO”) on November 19, 2013. A Reexamination
22 Certificate for the ‘949 Patent was duly and legally issued by the USPTO on
23 November 5, 2015. A copy of the ‘949 Patent, including the Reexamination
24 Certificate, is attached hereto as Exhibit 1.

25 35. The ‘949 Patent is directed to devices, computer-readable media, and
26 methods for controlling a plurality of players on a local area network.

27 36. The ‘949 Patent recognized problems with conventional multi-zone
28 audio systems. For instance, the ‘949 Patent recognized that “conventional multi-

1 zone audio system[s]” were undesirably based on a “centralized” device that was
2 “hard-wired” to “audio players” in different rooms with dedicated speaker wire.
3 *See, e.g.*, ‘949 Patent at 1:41-47, 1:57-60. Moreover, because these “conventional
4 multi-zone audio system[s]” were “either hard-wired or controlled by a pre-
5 configured and pre-programmed controller,” it was “difficult for [a conventional]
6 system to accommodate the requirement of dynamically managing the ad hoc
7 creation and deletion of groups,” among other disadvantages of conventional multi-
8 zone audio systems. *See, e.g., id.* at 1:57-2:12.

9 37. In this regard, the ‘949 Patent recognized “a need for dynamic control
10 of [] audio players as a group” and a solution that allowed “audio players [to] be
11 readily grouped” with “minimum manipulation.” *See, e.g., id.* at 2:13-15. In
12 particular, the ‘949 Patent recognized “a need for user interfaces that may be readily
13 utilized to group and control [] audio players.” *See, e.g., id.* at 1:15-18. The claimed
14 inventions of the ‘949 Patent are directed to technology that provides a solution to
15 such needs. *See, e.g., id.* at 2:65-3:3.

16 **The Inventions Claimed in U.S. Patent No. 8,588,949 Improved Technology**
17 **& Were Not Well-Understood, Routine, or Conventional**

18 38. Given the state of the art at the time of the inventions of the ‘949
19 Patent, including the deficiencies in “centralized,” “hard-wired” multi-zone audio
20 systems of the time, the inventive concepts of the ‘949 Patent cannot be considered
21 to be conventional, well-understood, or routine. *See, e.g.*, ‘949 Patent at 1:26-2:12.
22 The ‘949 Patent provides an unconventional solution to problems that arose in the
23 context of “centralized,” “hard-wired” multi-zone audio systems – namely, that
24 such systems made it difficult (or impossible) to dynamically group audio players
25 for synchronous playback and dynamically control such grouped audio players.
26 *See, e.g., id.* at 1:57-2:12.

27 39. At the core of the ‘949 Patent are aspects of Sonos’s unconventional
28 system architecture – a “controller” and a plurality of “independent playback

1 devices” (e.g., “zone players”) communicating over a “local area network” (LAN).
2 Further, unlike the “pre-configured and pre-programmed controller[s]” used to
3 control conventional “centralized,” “hard-wired” multi-zone audio systems, the
4 ‘949 Patent’s “controller” devices were unconventionally capable of controlling
5 any “zone player” in the system from anywhere in a user’s house via the LAN, such
6 as by dynamically “grouping the zone players” and “control[ling] the volume of
7 each of the zone players in a zone group individually or together.” *See, e.g.*, ‘949
8 Patent at 6:43-60.

9 40. In this respect, it was not well-understood, routine, or conventional at
10 the time of the inventions of the ‘949 Patent to have a “controller” configured to
11 (i) provide a user interface for a “player group” that includes a plurality of
12 “players,” each being an “independent playback device,” and (ii) accept an input to
13 facilitate formation of the “player group” for synchronized playback of a
14 multimedia output from the same multimedia source.” *See, e.g.*, ‘949 Patent at
15 Claims 1, 8, 15.

16 41. Moreover, it was not well-understood, routine, or conventional at the
17 time of the inventions of the ‘949 Patent to have a “controller” configured to
18 (i) accept, for any individual “player” in a “player group,” a player-specific input
19 to adjust the volume of that individual “player,” where the player-specific input
20 causes that individual “player” to adjust its volume and (ii) accept a “group-level”
21 input to adjust a volume associated with the “player group,” where the player-
22 specific input causes each of the “players” in the “player group” to adjust its
23 respective volume. *See* ‘949 Patent at Claims 1, 8, 15.

24 42. These are just exemplary reasons why the inventions claimed in the
25 ‘949 Patent were not well-understood, routine, or conventional at the time of their
26 invention.

27 43. The unconventional nature of the ‘949 Patent has also been confirmed
28 by wide-spread industry praise for the patented technology of the ‘949 Patent as an

1 advancement in the field of home audio, as set forth below.

2 44. Notably, the District Court of Delaware held that the claimed
3 inventions of the '949 Patent are "patent-eligible subject matter under § 101." *See*
4 Ex. 34 at p. 13. In particular, the district court recognized that the claimed
5 inventions of the '949 Patent "represent[] a substantial improvement over the
6 existing technology" that "provides for capabilities far beyond what a traditional
7 hardwired system offers." *Id.* at p. 12.

8 45. The district court also recognized that the '949 Patent's solutions
9 cannot be performed solely by a human. *See, e.g., id.* at pp. 11-12 ("Defendants'
10 arguments that a human could perform the actions the [controller] device is said to
11 perform is at best illogical."). Indeed, at least because the '949 Patent's claimed
12 solutions address problems rooted in multi-zone audio systems, these solutions are
13 not merely drawn to longstanding human activities. *See, e.g., id.* at p. 12 ("This is
14 not simply a 'more efficient' method of doing something already done by
15 humans.").

16 **The Inventions Claimed in U.S. Patent No. 8,588,949 Provide Important**
17 **Advantages to Wireless Audio Systems**

18 46. The group volume control technology of the '949 Patent provides
19 significant advantages that are important to wireless audio systems. The advantages
20 of Sonos's group volume control technology are reflected in the recognition and
21 praise it has received from the press. For example, shortly after Sonos launched its
22 first commercial product in 2005, *PC Magazine* exclaimed: "[Sonos] is the first
23 digital audio hub we can recommend without reservation Once you're back
24 to using the master volume control, the volume rises or falls relative to each room's
25 existing setting. These are the brilliant touches" *See* Ex. 8. As another
26 example, in 2005, *Playlist* lauded Sonos's "Controller" for its "stand[] out"
27 interface that enables dynamic grouping of Sonos players and volume control. *See*
28 Ex. 35. Likewise, in 2008, *Gizmodo* praised Sonos for the ability to "[c]hange the

1 volume in a single room, or in all your rooms at once, all from the Sonos
2 Controller.” *See* Ex. 36. A few years later, in 2012, *Pocket-lint* touted Sonos’s
3 patented group volume technology as “simple but clever.” *See* Ex. 37.

4 47. Recognizing the advantages of Sonos’s patented group volume control
5 technology, competitors in the industry, including Defendants, have incorporated
6 Sonos’s technology into their products and marketed the features that the
7 technology enables to their customers. For example, Defendants’ website includes
8 a webpage entitled “How Do I Adjust the Volume for My Selected Bluesound
9 Player?,” which touts the ability to control the volume of “individual players and
10 groups of players” in the Bluesound System using “Volume Sliders” provided on
11 the BluOS Controller Apps. *See* Ex. 38 (“There are 4 easy ways to adjust the
12 Volume for your players. . . . For other individual players and groups of players,
13 the Volume Sliders are located in your Players Drawer . . .”).

14 **U.S. Patent No. 9,195,258**

15 48. Sonos is the owner U.S. Patent No. 9,195,258 (the “‘258 Patent”),
16 entitled “System and Method for Synchronizing Operations Among a Plurality of
17 Independently Clocked Digital Data Processing Devices,” which was duly and
18 legally issued by the USPTO on November 24, 2015. A copy of the ‘258 Patent is
19 attached hereto as Exhibit 2.

20 49. The ‘258 Patent is directed to devices, systems, and methods for
21 synchronizing audio playback.

22 50. As discussed above, Sonos recognized problems with conventional
23 multi-zone audio systems and introduced a paradigm-shifting system architecture
24 comprising “zone players” that communicated over a data network. The
25 unconventional nature of Sonos’s “zone players” introduced additional
26 technological challenges to Sonos’s system. *See, e.g.*, ‘258 Patent at 1:55-2:36.

27 51. For instance, the ‘258 Patent recognized the technological challenge
28 of “ensur[ing] that, if two or more audio playback devices are contemporaneously

1 attempting to play back the same audio program, they do so simultaneously.” ‘258
2 Patent at 2:17-36. In this respect, the ‘258 Patent recognized that “audio playback
3 devices that are being developed have independent clocks, and, if they are not
4 clocking at precisely the same rate, the audio playback provided by the various
5 [playback] devices can get out of synchronization.” *Id.* at 2:32-36. Moreover, the
6 ‘258 Patent recognized that “differences in the audio playback devices’ start times
7 and/or playback speeds” “can arise . . . for a number of reasons, including delays
8 in the transfer of audio information over the network,” and that “[s]uch delays can
9 differ as among the various audio playback devices for a variety of reasons,
10 including where they are connected into the network, message traffic, and other
11 reasons” *Id.* at 2:20-27. Consequently, the ‘258 Patent recognized that “[s]mall
12 differences in the audio playback devices’ start times and/or playback speeds can
13 be perceived by a listener as an echo effect, and larger differences can be very
14 annoying.” *Id.* at 2:20-22.

15 52. In this regard, the ‘258 Patent recognized a need for “a new and
16 improved system and method for synchronizing operations among a number of
17 digital data processing devices that are regulated by independent clocking devices.”
18 *See, e.g.*, ‘258 Patent at 2:40-43. The claimed inventions of the ‘258 Patent are
19 directed to technology that provides a solution to such needs. *See, e.g., id.*

20 **The Inventions Claimed in U.S. Patent No. 9,195,258 Improved Technology**
21 **& Were Not Well-Understood, Routine, or Conventional**

22 53. Given the state of the art at the time of the inventions of the ‘258
23 Patent, including the deficiencies in centralized, hard-wired multi-zone audio
24 systems of the time, the inventive concepts of the ‘258 Patent cannot be considered
25 to be conventional, well-understood, or routine. *See, e.g.*, ‘258 Patent at 1:26-2:12.
26 The ‘258 Patent provides an unconventional solution to problems that arose in
27 Sonos’s unconventional system architecture comprising “zone players” that
28 communicated over a data network – namely, that such “zone players” have

1 “independent clocks” which makes ensuring synchronized audio playback difficult.
2 *See, e.g., id.* at 2:17-36.

3 54. At the core of the ‘258 Patent are aspects of Sonos’s unconventional
4 system architecture – “zone players” and at least one “controller” communicating
5 over a “local area network.” Each “zone player” was unconventionally equipped
6 with a data network interface and intelligence enabling the “zone player” to
7 independently access and play back audio from a variety of network-accessible
8 audio sources and dynamically enter a “group” with one or more other “zone
9 players” for synchronized audio playback based on an instruction from a
10 “controller.” *See, e.g.,* ‘258 Patent at FIG. 1, 3:50-61, 4:22-50, 5:10-6:64, Claims
11 1, 11, 17. While “grouped,” the “zone players” were unconventionally capable of
12 sharing particular information over a LAN to facilitate “reproduc[ing] audio
13 information synchronously” despite the fact that the “zone players operate with
14 independent clocks” and exchange packets over a network with “differing delays.”
15 ‘258 Patent at 31:34-41.

16 55. In this respect, it was not well-understood, routine, or conventional at
17 the time of the invention of the ‘258 Patent to have a “zone player” configured to
18 interface with a LAN and receive from a “controller” over the LAN a direction for
19 the “zone player” to enter into a synchrony group with at least one other zone
20 player. *See, e.g.,* ‘258 Patent at Claims 1, 11, 17.

21 56. Moreover, it was not well-understood, routine, or conventional at the
22 time of the inventions of the ‘258 Patent to have a “zone player” configured to enter
23 into a synchrony group with another “zone player” in which the “zone players” are
24 configured to playback audio in synchrony based at least on (i) audio content,
25 (ii) playback timing information associated with the audio content, and (iii) clock
26 time information for one of the “zone players.” *See, e.g.,* ‘258 Patent at Claims 1,
27 11, 17.

28 57. These are just exemplary reasons why the inventions claimed in the

1 ‘258 Patent were not well-understood, routine, or conventional at the time of their
2 invention.

3 58. Notably, the Patent Trial and Appeal Board recently confirmed that
4 the ‘258 Patent is directed not just to unconventional implementations but to truly
5 innovative audio technology when the PTAB found that inventions claimed in
6 Sonos’s Patent No. 9,213,357 – which cover similar subject matter as the inventions
7 claimed in the ‘258 Patent – would not have been obvious at the time of their
8 invention. *See* Ex. 39 at pp. 6-7.

9 59. The unconventional nature of the ‘258 Patent has also been confirmed
10 by wide-spread industry praise for the patented technology of the ‘258 Patent as an
11 advancement in the field of home audio, as set forth below.

12 **The Inventions Claimed in U.S. Patent No. 9,195,258 Provide Important**
13 **Advantages to Wireless Audio Systems**

14 60. The synchronization technology of the ‘258 Patent provides
15 significant advantages that are important to wireless audio systems. The advantages
16 of Sonos’s patented synchronization technology are reflected in the recognition and
17 praise it has received from the press. For example, in 2005, shortly after Sonos
18 released its first commercial products, *PC Magazine* touted the Sonos system for
19 its ability to “play the same music throughout the house, perfectly synchronized.”
20 *See* Ex. 8. Similarly, in 2005, *The Wall Street Journal* praised Sonos’s system for
21 the ability to “play . . . the same songs, in each room simultaneously.” *See* Ex. 40.
22 As another example, in 2013, *Macworld* exclaimed: “Sonos is the gold standard
23 when it comes to multi-room audio . . . you can drive the system from any computer
24 or handheld device, playing music in sync throughout the house” *See* Ex. 41.
25 Likewise, in 2013, *NBC News* praised Sonos’s patented synchronization technology
26 as “mind blowing.” *See* Ex. 9 (“If you’re not familiar with Sonos, this company
27 revolutionized the home audio world a decade ago when it launched the first (rather
28 expensive) Sonos kits If you wanted the same song in every room, no problem,

1 the tracks would be perfectly in sync At the time, this was mind blowing.
2 Never before could you get music in every room without drilling a bunch of holes
3 for wires”).

4 61. Recognizing the advantages of Sonos’s patented synchronization
5 technology, competitors in the industry, including Defendants, have incorporated
6 Sonos’s patented technology into their products and marketed the features that the
7 technology enables to their customers. For example, in marketing the Bluesound
8 System on Defendants’ website, Defendants have touted on their website that you
9 can “[e]asily group . . . Bluesound Players [together] to stream music across
10 different rooms in perfect sync” *See* Ex. 42. Similarly, Defendants’ website
11 touts that you can “group multiple Players together and listen to the same track in
12 different rooms.” *See* Ex. 43; *see also* Ex. 44 (“[G]roup your Players together and
13 play your music in perfect sync throughout the house. . . . Listen to your music in
14 perfect sync as you walk room-to-room.”).

15 **U.S. Patent No. 9,219,959**

16 62. Sonos is the owner U.S. Patent No. 9,219,959 (the “‘959 Patent”),
17 entitled “Multi Channel Pairing in a Media System,” which was duly and legally
18 issued by the USPTO on December 22, 2015. A Reexamination Certificate for the
19 ‘959 Patent was duly and legally issued by the USPTO on April 5, 2017. A copy
20 of the ‘959 Patent, including the Reexamination Certificate, is attached hereto as
21 Exhibit 3.

22 63. The ‘959 Patent is directed to devices and methods for providing audio
23 in a multi-channel listening environment.

24 64. As with other of the patents-in-suit, the ‘959 Patent recognized
25 problems with conventional multi-zone audio systems. For instance, the ‘959
26 Patent recognized that conventional multi-zone audio systems were based on a
27 centralized device that was hard-wired to “individual, discrete speakers” in
28 different rooms that required “physically connecting and re-connecting speaker

1 wire, for example, to individual, discrete speakers to create different
2 configurations.” *See, e.g.*, ‘959 Patent at 6:54-58. Because these conventional
3 multi-zone audio systems were hard-wired to “individual, discrete speakers,” it was
4 difficult (if not impossible) to “group, consolidate, and pair” the speakers into
5 different “desired configurations” without “connecting and re-connecting speaker
6 wire.” *See, e.g., id.*

7 65. Thus, the ‘959 Patent recognized a need for technology that could
8 “provide a more flexible and dynamic platform through which sound reproduction
9 can be offered to the end-user.” ‘959 Patent at 6:58-61. The claimed inventions of
10 the ‘959 Patent are directed to technology that provides a solution to such needs,
11 thereby providing technology that helps “to achieve or enhance a multi-channel
12 listening environment.” *Id.* at 2:17-19.

13 **The Inventions Claimed in U.S. Patent No. 9,219,959 Improved Technology**
14 **& Were Not Well-Understood, Routine, or Conventional**

15 66. Given the state of the art at the time of the inventions of the ‘959
16 Patent, including the deficiencies in centralized, hard-wired multi-zone audio
17 systems of the time that required “physically connecting and re-connecting speaker
18 wire . . . to create different configurations,” the inventive concepts of the ‘959
19 Patent cannot be considered to be conventional, well-understood, or routine. *See,*
20 *e.g.*, ‘959 Patent at 6:54-58. The ‘959 Patent provides an unconventional solution
21 to problems that arose in the context of centralized, hard-wired multi-zone audio
22 systems – namely, that the technology of such systems made it difficult (if not
23 impossible) to “group, consolidate, and pair” “individual, discrete speakers” into
24 different “desired configurations.” *See, e.g., id.* In this respect, unlike conventional
25 hard-wired multi-zone audio systems, the ‘959 Patent provided unconventional
26 technology including a “controller” with a “control interface” through which
27 “actions of grouping, consolidation, and pairing [were] performed,” and a
28 “playback device” with processing intelligence capable of being dynamically

1 “pair[ed]” with another playback device to simulate “a multi-channel listening
2 environment.” *Id.* at 6:54-58, 22:14-38.

3 67. In this respect, it was not well-understood, routine, or conventional at
4 the time of the invention of the ‘959 Patent to have a “playback device” comprising
5 a network interface and configured to operate in at least both a first and second
6 “type of pairing.” *See, e.g.*, ‘959 Patent at Claims 4-7, 9-11, 17-20.

7 68. Moreover, it was not well-understood, routine, or conventional at the
8 time of the invention of the ‘959 Patent to have a “playback device” configured to
9 (i) process audio data before the “playback device” outputs audio, (ii) determine
10 that a type of pairing of the “playback device” comprises one of at least a first type
11 of pairing or a second type of pairing, (iii) perform a first equalization of the audio
12 data before outputting audio based on the audio data when the type of pairing is
13 determined to comprise the first type of pairing, and (iv) perform a second
14 equalization of the audio data before outputting audio when the type of pairing is
15 determined to comprise the second type of pairing. *See, e.g.*, ‘959 Patent at Claims
16 4-7, 9-11, 17-20. It was also not well-understood, routine, or conventional at the
17 time of the invention of the ‘959 Patent to have a “playback device” configured to
18 perform the aforementioned functions as well as being configured to receive an
19 instruction from a “controller” over a network for the “playback device to “pair”
20 with one or more other “playback devices.” *See, e.g., id.* at Claim 10.

21 69. These are just exemplary reasons why the inventions claimed in the
22 ‘959 Patent were not well-understood, routine, or conventional at the time of their
23 invention.

24 70. The unconventional nature of the ‘959 Patent has also been confirmed
25 by wide-spread industry praise for the patented technology of the ‘959 Patent as an
26 advancement in the field of home audio, as set forth below.

27 71. Notably, the District Court of Delaware held that the claimed
28 inventions of the ‘959 Patent are “patent-eligible subject matter under § 101.” *Ex.*

1 34 at p. 16. In particular, the district court recognized that the claimed inventions
2 of the ‘959 Patent represent a “substantial improvement” over the existing
3 technology. *Id.* at p. 15.

4 72. The district court also recognized that the ‘959 Patent’s solutions
5 cannot be performed solely by a human. *See, e.g., id.* at p. 15 (“In order to perform
6 this method manually . . . a person would have to manually rewire the devices each
7 time a new selection is made for which devices are to output which channels.”).
8 Indeed, at least because the ‘959 Patent’s claimed solutions address problems
9 rooted in multi-zone audio systems and facilitate a “pairing” process with functions
10 not previously performed by humans, these solutions are not merely drawn to
11 longstanding human activities. *See, e.g., id.* at p. 15 (“This simply is not the kind of
12 method that could be performed manually and, even if it were, automating the
13 method as claimed represents a substantial improvement to the functionality of a
14 specific device.”).

15 **The Inventions Claimed in U.S. Patent No. 9,219,959 Provide Important**
16 **Advantages to Wireless Audio Systems**

17 73. The multi-channel pairing technology of the ‘959 Patent provides
18 significant advantages that are important to wireless audio systems. The advantages
19 of Sonos’s multi-channel pairing technology are reflected in the recognition and
20 praise it has received from the press. For example, in 2010, around the time that
21 Sonos released its multi-channel pairing technology, *SlashGear* praised Sonos’s
22 technology as “a slick way for users . . . to combine two speakers when they want
23 better sound.” *See* Ex. 45. Similarly, in 2015, *Trusted Reviews* described Sonos’s
24 multi-channel pairing technology as “[o]ne particularly nifty feature,” and
25 explained that it allows you to “[p]air up multiple speakers for better sound.” *See*
26 Ex. 46; *see also* Ex. 10 (2014 *Consumer Reports*: praising Sonos’s multi-channel
27 pairing technology as providing “a richer, more detailed sound with wider
28 soundstage.”); Ex. 47 (2014 *Businessweek*: recognizing Sonos’s pairing

1 technology as appealing to the “audiophile”); Ex. 48 (2013 *What Hi-Fi*: praising
2 Sonos’s pairing technology because “performance is bolstered significantly. Bass
3 is even more solid, instrument separation improves, smaller details are picked up
4 with more confidence and sound can go noticeably louder without distortion.”).

5 74. Recognizing the advantages of Sonos’s patented multi-channel pairing
6 technology, competitors in the industry, including Defendants, have incorporated
7 Sonos’s technology into their products and marketed the features that the
8 technology enables to their customers. For example, in marketing the Bluesound
9 PULSE FLEX 2i on Defendants’ website, Defendants have touted that you can
10 “[p]lace a pair in any room [and] pair them together for stereo sound” or “combine
11 a pair of PULSE FLEX 2i speakers with the PULSE SOUNDBAR 2i and SUB to
12 create a completely immersive Dolby Digital Surround system, for every lush
13 cinematic detail.” *See* Ex. 42. Similarly, in marketing the Bluesound PULSE
14 SOUNDBAR 2i, Defendants have touted that you can “[c]reate the most advanced
15 Dolby Digital Surround system by adding a PULSE SUB and a pair of PULSE
16 FLEX 2i speakers as dedicated rears and hear every lush cinematic detail of your
17 favorite movies and TV shows.” *See* Ex. 49. As another example, Defendants’
18 website also includes a webpage entitled “FIXED GROUPS MAKES STEREO
19 PAIRING EASIER,” which includes detailed instructions on how to “set two
20 Players as a Stereo Pair such as two PULSE family speakers act as a Left Speaker
21 and Right Speaker on opposite sides of a wall unit or room.” *See* Ex. 50.

22 **U.S. Patent No. 8,868,698**

23 75. Sonos is the owner U.S. Patent No. 8,868,698 (the “‘698 Patent”),
24 entitled “Establishing a Secure Wireless Network with Minimum Human
25 Intervention,” which was duly and legally issued by the USPTO on October 21,
26 2014. A copy of the ‘698 Patent is attached hereto as Exhibit 4.

27 76. The ‘698 Patent is directed to methods and computer-readable media
28 for connecting a playback device to a network.

1 77. The ‘698 Patent recognized problems with conventional device-setup
2 technology for connecting “consumer electronic devices” (e.g., “home
3 entertainment products”) to a network. *See, e.g.*, ‘698 Patent at 1:27-56. For
4 instance, the ‘698 Patent recognized that “[c]onsumer electronic devices that
5 operate using wireless or wired Ethernet standards are often subject to the same
6 complicated set-up process as a wireless computer network.” *Id.* at 1:27-29.

7 78. Indeed, a conventional setup process typically required “the person
8 who sets up the wireless network [to] have at least some knowledge about IP
9 (Internet Protocol) networking and Ethernet (e.g., 802.3, 802.11), such as
10 addressing, security, broadcast, unicast, etc.” *Id.* at 1:30-33. At the time of the
11 inventions of the ‘698 Patent, typically only “IT professionals” possessed such
12 knowledge. *Id.* at 1:33-35. Indeed, to connect a computer to a wireless network,
13 “the user has to know what type of network the computer is going to be connected
14 to,” which was a “difficult question [for] the average consumers” to answer. *Id.* at
15 1:47-51. Moreover, there were additional “questions or options related to []
16 security settings [] which evidently require[d] some good understanding about the
17 network security over the wireless network.” *Id.* at 1:53-56. Thus, the ‘698 Patent
18 recognized that it was “impractical to require average consumers to have such
19 knowledge to hook up consumer electronic devices, such as home entertainment
20 products that use wireless/wired Ethernet connectivity.” *Id.* at 1:36-39.

21 79. In this regard, the ‘698 Patent recognized that there was “a clear need
22 to create simple methods of setting up and maintaining a secure wireless/wired in-
23 home network with minimum human interventions.” *Id.* at 1:57-60. The claimed
24 inventions of the ‘698 Patent are directed to technology that provides a solution to
25 such needs.

26 **The Inventions Claimed in U.S. Patent No. 8,868,698 Improved Technology**
27 **& Were Not Well-Understood, Routine, or Conventional**

28 80. Given the state of the art at the time of the inventions of the ‘698

1 Patent, including the deficiencies in conventional device-setup technology of the
2 time, the inventive concepts of the ‘698 Patent cannot be considered to be
3 conventional, well-understood, or routine. *See, e.g.*, ‘698 Patent at 1:27-60. The
4 ‘698 Patent provides an unconventional solution to problems arising in the context
5 of connecting “consumer electronic devices” (e.g., “home entertainment products”)
6 to a network – namely, that such devices typically operated “using wireless or wired
7 Ethernet standards [that were] often subject to the same complicated set-up process
8 as a wireless computer network.” *Id.* In this respect, unlike conventional device-
9 setup technology whose complexity made it “impractical” for “average consumers
10 to . . . hook up consumer electronic devices” to a requisite data network, the ‘698
11 Patent provided a technological solution that made it easier for consumers to
12 connect a consumer electronic device to a data network. *See, e.g., id.* at 1:27-56.

13 81. In this regard, it was not well-understood, routine, or conventional at
14 the time of the invention of the ‘698 Patent to have a “controller” configured to
15 perform the specific combination of (i) in response to receiving a manual user input,
16 entering a mode to listen for a message from a “playback device” over a first
17 network indicating that the “playback device” is available for configuration, (ii) in
18 response to receiving the first message, transmitting a message to the “playback
19 device” over the first network that requests the “playback device’s” network
20 configuration information, (iii) receiving another message from the “playback
21 device” over the first network that includes the “playback device’s” network
22 configuration information, (iv) determining whether the “playback device” is
23 configured for a secure playback network, and (v) send another message to the
24 “playback device” over the first network that instructs the “playback device” to
25 reconfigure its network configuration information according to network
26 configuration parameters provided by the “controller” such that the reconfigured
27 “playback device” is to join the secure playback network without further user input.
28 *See, e.g.*, ‘698 Patent at Claims 1, 9, 17.

1 PLAYER TO THE NETWORK?,” which includes detailed instructions on how to
2 setup and “connect your Bluesound Player to your home network.” *See* Ex. 51.

3 **U.S. Patent No. 9,883,234**

4 87. Sonos is the owner U.S. Patent No. 9,883,234 (the “‘234 Patent”),
5 entitled “Systems and Methods for Networked Music Playback,” which was duly
6 and legally issued by the USPTO on January 30, 2018. A copy of the ‘234 Patent
7 is attached hereto as Exhibit 5.

8 88. The ‘234 Patent is directed to devices, methods, and computer-
9 readable media for transferring playback of multimedia content from a control
10 device to a zone group.

11 89. The ‘234 Patent recognized that “[t]echnological advancements have
12 increased the accessibility of music content,” and while “[d]emand for such . . .
13 content continue[d] to surge,” technology for transferring content from “music-
14 playing applications” to networked audio devices was limited (if not non-existent).
15 *See, e.g.*, ‘234 Patent at 1:23-32, 2:14-21. For instance, existing audio technology
16 typically did not permit a third-party music-playing application to transfer music
17 content to networked audio devices; rather, the networked audio devices’ music
18 playback was typically controlled by dedicated “controller” devices. *See, e.g., id.*
19 at 12:50-54, 13:1-9, 15:38-16:18.

20 90. In this respect, the ‘234 Patent recognized the need for technology to
21 “facilitate streaming or otherwise providing music from a music-playing
22 application (e.g., browser-based application, native music player, other multimedia
23 application, and so on) to a multimedia playback (e.g., Sonos™) system.” *See* ‘234
24 Patent at 2:14-21. In other words, the ‘234 Patent recognized the need for
25 technology to enable a “third party application” to “pass music to [a] household
26 playback system without [a] tight coupling to that household playback system.” *Id.*
27 at 12:50-54. The claimed inventions of the ‘234 Patent are directed to technology
28 that provides a solution to such needs. *See, e.g., id.* at 2:14-21, 12:31-54, 13:1-9,

1 15:38-16:18.

2 **The Inventions Claimed in U.S. Patent No. 9,883,234 Improved Technology**
3 **& Were Not Well-Understood, Routine, or Conventional**

4 91. Given the state of the art at the time of the inventions of the ‘234
5 Patent, including the deficiencies in existing technology for transferring content
6 from third-party music-playing applications to networked audio devices, the
7 inventive concepts of the ‘234 Patent cannot be considered to be conventional, well-
8 understood, or routine. *See, e.g.*, ‘234 Patent at 1:23-32, 2:14-21. The ‘234 Patent
9 provides an unconventional solution to problems arising in the context of
10 transferring audio content from a third-party music-playing application to
11 networked audio devices – namely, that such technology was limited (if not non-
12 existent). *See, e.g., id.* at 12:50-54, 13:1-9, 15:38-16:18.

13 92. In this regard, the ‘234 Patent discloses unconventional technology for
14 transferring multimedia playback responsibilities from a control device running a
15 music-playing application to a “playback device” that is not dependent on a “local
16 playback controller application[’s]” involvement. *See, e.g.*, ‘234 Patent at 15:38-
17 54. As one example to illustrate this unconventional technology, the ‘234 Patent
18 discloses that “a user [who] listens to a third party music application (e.g.,
19 PandoraTM, RhapsodyTM, SpotifyTM, and so on) on her smart phone” can “select[]
20 an option to continue playing that channel on her household music playback system
21 (e.g., SonosTM),” where the playback system “picks up from the same spot on the
22 selected channel that was on her phone and outputs that content (e.g., that song) on
23 speakers and/or other playback devices connected to the household playback
24 system.” *Id.* at 12:31-40.

25 93. In this respect, it was not well-understood, routine, or conventional at
26 the time of the inventions of the ‘234 Patent to have a “playback device” configured
27 to receive, from one or more first cloud servers, an instruction to (i) add a particular
28 multimedia content to a local playback queue on the “playback device” and (ii) play

1 back the multimedia content from the local playback queue beginning at a particular
2 play position within the multimedia content corresponding to when a set of inputs
3 for transferring playback of the multimedia content from a “control device” to a
4 “zone group” comprising the “playback device” was detected at a control interface
5 of the “control device,” where the instruction includes a resource locator indicating
6 a particular source of the multimedia content at one or more second cloud servers
7 of a streaming content service. *See, e.g.*, ‘234 Patent at Claims 1, 6, 11.

8 94. Moreover, it was not well-understood, routine, or conventional at the
9 time of the invention of the ‘234 Patent to have a “playback device” configured to,
10 in response to receiving the aforementioned instruction, (i) add the particular
11 multimedia content to a local playback queue on the “playback device” and (ii) play
12 back the particular multimedia content beginning at the particular play position
13 within the multimedia content in synchrony with at least one additional “playback
14 device” by obtaining the multimedia content from a particular source of the
15 multimedia content at the one or more second cloud servers of the streaming content
16 service using a resource locator. *See, e.g.*, ‘234 Patent at Claims 1, 6, 11.

17 95. These are just exemplary reasons why the inventions claimed in the
18 ‘234 Patent were not well-understood, routine, or conventional at the time of their
19 invention.

20 96. The unconventional nature of the ‘234 Patent has also been confirmed
21 by wide-spread industry praise for the patented technology of the ‘234 Patent as an
22 advancement in the field of home audio, as set forth below.

23 **The Inventions Claimed in U.S. Patent No. 9,883,234 Provide Important**
24 **Advantages to Wireless Audio Systems**

25 97. The direct control technology of the ‘234 Patent provides significant
26 advantages that are important to wireless multi-room audio systems. The
27 advantages of Sonos’s patented direct control technology are reflected in the
28 recognition and praise it has received from the press. For example, in 2016, when

1 direct control of Sonos's players from the Spotify app was enabled, *The Verge*
2 released an article entitled "You can finally control your Sonos speakers directly
3 from Spotify," and touted the direct control technology for "mak[ing] it much easier
4 to go from listening to music on your phone or laptop to listening on a Sonos
5 speaker." *See* Ex. 52. *The Verge* also explained: "Sonos and Spotify are releasing
6 an update today allowing Spotify to directly play to Sonos speakers to all users.
7 The update essentially makes any Sonos device into a Spotify Connect speaker,
8 with the added bonus of Sonos' signature multi-room functionality built in." *Id.*
9 Likewise, *Pocket-lint* released a similar article on the same day entitled "Now all
10 Sonos users can now control their systems from Spotify," which touted the direct
11 control feature for "the ability to send whatever you're playing on Spotify to any
12 Sonos speaker in your home, instantly." *See* Ex. 53.

13 98. Recognizing the advantages of Sonos's patented direct control
14 technology, competitors in the industry, including Defendants, have incorporated
15 Sonos's patented technology into their products and marketed the features that the
16 technology enables to their customers. For example, Defendants' website includes
17 a webpage entitled "IS MY BLUESOUND PLAYER A SPOTIFY® CONNECT
18 DEVICE?," which includes detailed instructions on how the Bluesound System
19 "can be easily controlled by using the . . . Spotify App for iOS or Android." *See*
20 Ex. 54.

21 **U.S. Patent No. 8,938,312**

22 99. Sonos is the owner of U.S. Patent No. 8,938,312 (the "'312 Patent"),
23 entitled "Smart Line-In Processing," which was duly and legally issued by the
24 USPTO on January 20, 2015. A copy of the '312 Patent is attached hereto as
25 Exhibit 6.

26 100. The '312 Patent is directed to devices, methods, and computer-
27 readable media for smart line-in processing.

28 101. The '312 Patent recognized problems with existing technology for

1 switching between sources of media content. In this regard, the ‘312 Patent
2 recognized that existing multi-source media systems at the time of the inventions
3 of the ‘312 Patent lacked intelligent source-switching technology and therefore,
4 were cumbersome to use from a user’s perspective. *See, e.g.*, ‘312 Patent at 2:12-
5 31, 6:11-20, 6:49-64.

6 102. For instance, in order for an existing audio system to switch from
7 playing audio from a first source to playing audio from a second source connected
8 to the audio system by a line-in connector, a user would first instruct the second
9 source to begin playing audio and then instruct the audio system to switch its input
10 to the second source. *See, e.g.*, ‘312 Patent at 2:13-24, 6:11-20, 6:49-56. Moreover,
11 in order for an existing audio system to then switch from playing audio from the
12 second source provided to the audio system through the line-in connector to another
13 source, a user would first need to instruct the second source to stop providing the
14 audio system with audio through the line-in connector. *See, e.g., id.* at 2:24-27,
15 6:57-60.

16 103. The claimed inventions of the ‘312 Patent are directed to technology
17 that improved upon these deficiencies of existing multi-source media systems.

18 **The Inventions Claimed in U.S. Patent No. 8,938,312 Improved Technology**
19 **& Were Not Well-Understood, Routine, or Conventional**

20 104. Given the state of the art at the time of the inventions of the ‘312
21 Patent, including the deficiencies in existing technology for switching between
22 sources of media content, the inventive concepts of the ‘312 Patent cannot be
23 considered to be conventional, well-understood, or routine. *See, e.g.*, ‘312 Patent
24 at 2:12-31, 6:49-64. Indeed, the ‘312 Patent provides an unconventional solution
25 to problems that arose in multi-source media systems of the time – namely, that
26 such systems were reliant on a user to perform specific sequences of operations in
27 order for such systems to switch from playing one media source to another. *See,*
28 *e.g., id.* at 2:13-27, 6:11-20, 6:49-60.

1 105. In this respect, the ‘312 Patent improved the technological capabilities
2 of multi-source media systems by providing a solution for multi-source “playback
3 devices” to intelligently switch between media sources based on specific criteria,
4 thereby changing how multi-source media systems of the time previously operated
5 to switch between media sources. *See, e.g., id.* at 2:17-31, 6:11-20, 6:49-64. For
6 instance, instead of a media system relying on a user to first instruct a given source
7 to begin playing audio and then receiving an instruction to switch the media
8 system’s input source to the given source, the claimed inventions of the ‘312 Patent
9 allow a user to merely instruct a given line-in connected source to begin playing
10 audio and the claimed “playback device” is equipped with technological
11 capabilities to intelligently switch to that given source for playback. *See, e.g., id.*

12 106. In this regard, it was not well-understood, routine, or conventional at
13 the time of the inventions of the ‘312 Patent to have a “playback device” configured
14 to, in response to determining that a first audio signal is present at a line-in
15 connector, (i) cease playback of a second audio signal being played by the
16 “playback device” that is not present at the line-in connector and (ii) cause the
17 “playback device” to play the first audio signal. *See, e.g., ‘312 Patent at Claim 1.*

18 107. Likewise, it was not well-understood, routine, or conventional at the
19 time of the inventions of the ‘312 Patent to have a “playback device” configured to
20 (i) receive an instruction to stop the “playback device” from playing a first audio
21 signal while the first audio signal is still present at the “playback device’s” line-in
22 connector, (ii) determine that the first audio signal is no longer present at the line-
23 in connector, and (iii) in response to determining that the first audio signal is no
24 longer present at the line-in connector, arm itself such that a subsequent presence
25 of the first audio signal at the line-in connector causes the “playback device” to play
26 the first audio signal. *See, e.g., ‘312 Patent at Claim 1.*

27 108. These are just exemplary reasons why the inventions claimed in the
28 ‘312 Patent were not well-understood, routine, or conventional at the time of their

1 invention.

2 109. The unconventional nature of the '312 Patent has also been confirmed
3 by wide-spread industry praise for the patented technology of the '312 Patent as an
4 advancement in the field of home audio, as set forth below.

5 **The Inventions Claimed in U.S. Patent No. 8,938,312 Provide Important**
6 **Advantages to Wireless Audio Systems**

7 110. The smart line-in processing technology of the '312 Patent provides
8 significant advantages that are important to wireless multi-room audio systems.
9 The advantages of Sonos's patented smart line-in processing technology are
10 reflected in the recognition and praise it has received from the press. For example,
11 in 2013, shortly after Sonos released its PLAYBAR soundbar, *the Mac Observer*
12 praised Sonos's patented smart line-in processing technology as "automated magic"
13 and explained that unlike the reviewer's "home theater system [that] would require
14 [the reviewer] to power it on and then select the appropriate input," the Sonos
15 PLAYBAR "just works automatically, turning itself on and off when needed"
16 *See Ex. 55.* Likewise, in 2013, *Big Picture Big Sound* explained that the Sonos
17 PLAYBAR "keep[s] things as simple as possible" so that "if you're streaming
18 music from Rhapsody, but then flip on the TV to watch a movie, the PlayBar
19 automatically switches over to the TV input so you can enjoy sound that matches
20 the picture." *See Ex. 56.* More recently, in 2017, *Pocket-lint* praised Sonos's
21 patented smart line-in processing technology as "handy because it means you don't
22 get that frustrating moment of 'Why isn't there any sound?'," and the reviewer went
23 on to explain that "[i]n the time we've been using the PlayBar, the [automatic]
24 handshake has worked perfectly every time." *See Ex. 57.*

25 111. Recognizing the advantages of Sonos's patented smart line-in
26 processing technology, competitors in the industry, including Defendants, have
27 incorporated Sonos's patented technology into their products and marketed the
28 features that the technology enables to their customers. For example, Defendants'

1 website includes a webpage entitled “HOW DO I ENABLE SOUND TO PLAY
2 AUTOMATICALLY FROM MY TV?,” which explains how “BluOS Players can
3 automatically switch to Optical Input if signal is detected from a TV, CD Player or
4 other digital audio input device” – a feature Defendants appear to refer to as “Auto
5 Sense.” *See* Ex. 58.

6 **U.S. Patent No. 9,252,721**

7 112. Sonos is the owner U.S. Patent No. 9,252,721 (the “‘721 Patent”),
8 entitled “Power Decrease Based On Packet Type,” which was duly and legally
9 issued by the USPTO on February 2, 2016. A copy of the ‘721 Patent is attached
10 hereto as Exhibit 7.

11 113. The ‘721 Patent is directed to devices, methods, and computer-
12 readable media for controlling an audio amplifier.

13 114. The ‘721 Patent recognized that, at the time of the inventions of the
14 ‘721 Patent, many consumer electronics wastefully consumed power. In this
15 regard, the ‘721 Patent recognized that an audio amplifier of an audio device is “a
16 primary source to draw most of the power to drive the [audio device].” *See, e.g.,*
17 ‘721 Patent at 5:28-30. As such, the ‘721 Patent recognized that it is “not desirable”
18 to leave an audio amplifier on, “even if it is not actually in use, [because it]
19 consumes [] power, shortens the operating life thereof, and may generate excessive
20 heat that can cause damage to nearby parts.” *Id.* at 5:30-36.

21 115. Although manufacturers of electrical appliances recognized that
22 “[a]utomatic power shutdown [was] an important feature” at the time of the
23 inventions of the ‘721 Patent, existing automatic-power-shutdown technology was
24 “not effective when used in a distributed system comprising multiple devices”
25 ‘721 Patent at 1:22-23, 1:52-59. Indeed, existing automatic-power-shutdown
26 technology of the time was “largely based upon special circuitry or analog control
27 circuits,” that lacked “control flexibility” and “would increase the cost and
28 complexity” if added to a networked audio device. *Id.* at 1:38-40, 1:59-60, 7:22-

1 26.

2 116. Thus, the ‘721 Patent recognized “a need for solutions of automatic
3 shutdown suitable for [a distributed] system without adding extra hardware.” ‘721
4 Patent at 1:60-62. The claimed inventions of the ‘721 Patent are directed to
5 technology that provides such a solution, which helps to “achieve a longer operating
6 lifespan of [] amplifiers and save more power,” among other technological
7 advantages. *Id.* at 8:19-21.

8 **The Inventions Claimed in U.S. Patent No. 9,252,721 Improved Technology**
9 **& Were Not Well-Understood, Routine, or Conventional**

10 117. Given the state of the art at the time of the inventions of the ‘721
11 Patent, including the deficiencies in automatic-power-shutdown technology of the
12 time, the inventive concepts of the ‘721 Patent cannot be considered to be
13 conventional, well-understood, or routine. *See, e.g.*, ‘721 Patent at 1:52-62, 7:22-
14 26, 8:6-37. Indeed, the ‘721 Patent provides an unconventional solution to
15 problems that arose in automatic-power-shutdown technology of the time – namely,
16 that such technology was ineffective in certain distributed system contexts, largely
17 reliant on analog circuitry, and costly and complex to integrate into devices. *See,*
18 *e.g., id.* In this respect, the ‘721 Patent improved automatic-power-shutdown
19 technology by providing a solution for distributed audio devices involving a
20 software-based approach that was more flexible, and less complex and cheaper to
21 implement, than existing hardware-based approaches at the time of the inventions
22 of the ‘721 Patent. *See, e.g., id.*

23 118. In this regard, it was not well-understood, routine, or conventional at
24 the time of the inventions of the ‘721 Patent to have a “playback device” comprising
25 a network interface and configured to implement power-mode transitions for the
26 “playback device’s” amplifier utilizing a software-based technique. *See, e.g.*, ‘721
27 Patent at 1:52-62, 7:22-26, 8:6-37.

28 119. Likewise, it was not well-understood, routine, or conventional at the

1 time of the inventions of the ‘721 Patent to have a “playback device” configured to
2 (i) while operating in a first power mode in which the “playback device’s” amplifier
3 consumes a first amount of power, receive one or more packets addressed to the
4 “playback device” and (ii) after determining that a defined time has passed since
5 receiving a specified type of data packet, transition from operating in the first power
6 mode to operate in a second power mode in which the “playback device’s” amplifier
7 consumes a second, lower amount of power. *See, e.g.*, ‘721 Patent at Claims 1, 13,
8 and 19.

9 120. These are just exemplary reasons why the inventions claimed in the
10 ‘721 Patent were not well-understood, routine, or conventional at the time of their
11 invention.

12 121. The unconventional nature of the ‘721 Patent has also been confirmed
13 by industry praise for the patented technology of the ‘721 Patent as an advancement
14 in the field of home audio, as set forth below.

15 **The Inventions Claimed in U.S. Patent No. 9,252,721 Provide Important**
16 **Advantages to Wireless Audio Systems**

17 122. The power save technology of the ‘721 Patent provides significant
18 advantages that are important to wireless multi-room audio systems. The
19 advantages of Sonos’s patented power save technology are reflected in the
20 recognition and praise it has received from the press. For example, *Good*
21 *Housekeeping* praised Sonos’s “standby mode” as “us[ing] very little power.” *See*
22 *Ex. 59.*

23 123. Recognizing the advantages of Sonos’s patented power save
24 technology, competitors in the industry, including Defendants, have incorporated
25 Sonos’s patented technology into their products and marketed the features that the
26 technology enables to their customers. For example, Defendants’ website includes
27 a webpage entitled “HOW DO I TURN OFF MY BLUESOUND PLAYER?,”
28 which explains that “[w]hile it idles and waits to receive a command, a Bluesound

1 Player will consume very little power,” and that Bluesound’s “Gen2 Players will
 2 automatically enter Power Save mode (less than 6.0W of power) after 15 minutes
 3 of idle . . . [to] conserve energy but [the Player] is [still] responsive to App
 4 commands and available on the network.” *See* Ex. 60.

5 **COUNT I: INFRINGEMENT OF U.S. PATENT NO. 8,588,949**

6 124. Sonos incorporates by reference and re-alleges paragraphs 25-47 of
 7 this Complaint as if fully set forth herein.

8 125. Defendants and/or users of the Bluesound System have directly
 9 infringed (either literally or under the doctrine of equivalents) and continue to
 10 directly infringe one or more of the claims of the ‘949 Patent, in violation of 35
 11 U.S.C. § 271(a), by making, using, offering for sale, and/or selling the Bluesound
 12 System within the United States and/or importing the Bluesound System into the
 13 United States without authority or license.

14 126. As just one non-limiting example, set forth below is an exemplary
 15 infringement claim chart for claim 1 of the ‘949 Patent in connection with the
 16 Bluesound System. This claim chart is based on publicly available information.
 17 Sonos reserves the right to modify this claim chart, including, for example, on the
 18 basis of information about the Bluesound System that it obtains during discovery.

Claim: 1	Bluesound
19 20 1. A multimedia 21 controller including a 22 processor, the 23 controller configured 24 to: 25 26 27	At least each of Defendants’ PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i, PULSE, PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i, PULSE SUB, NODE, NODE 2, NODE 2i, POWERNODE, POWERNODE 2, POWERNODE 2i, VAULT, VAULT 2, VAULT 2i, and any other “BluOS Enabled” or “BluOS Ready” audio player (e.g., the NPM-1) comprises an “independent playback device” as recited in claim 1, and any device installed with a BluOS Controller App comprises a “multimedia controller” including a

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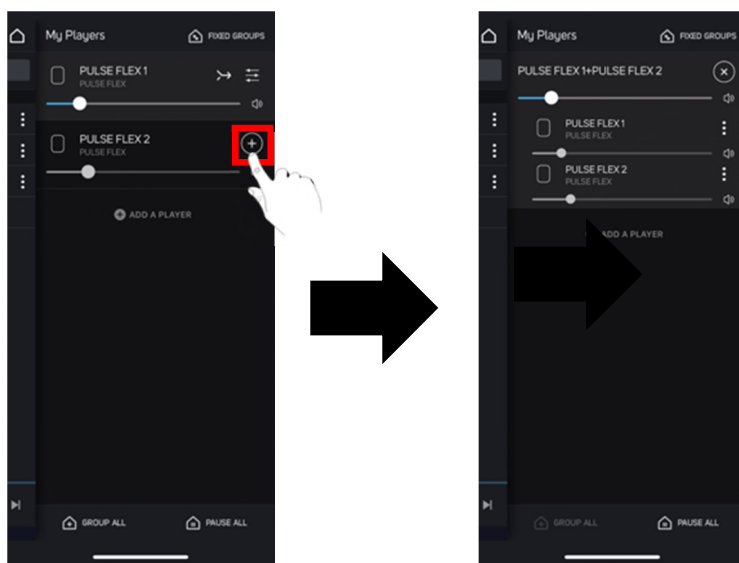
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	<p>processor that is configured to perform the functions recited in claim 1. <i>See, e.g.</i>, Ex. 24, 44, 61.</p>
<p>provide a user interface for a player group, wherein the player group includes a plurality of players in a local area network, and wherein each player is an independent playback device configured to playback a multimedia output from a multimedia source;</p>	<p>A device installed with the BluOS Controller App is a multimedia controller configured to provide a user interface for a player group that includes a plurality of Bluesound Players in a local area network (LAN), each of which is an independent playback device configured to playback a multimedia output from a multimedia source (e.g., an audio output from an audio source).</p> <p>For instance, a device installed with the BluOS Controller App is configured to provide a user interface that facilitates forming and controlling one or more groups of Bluesound Players. Some exemplary screenshots of aspects of the user interface provided by a device installed with the BluOS Controller App are illustrated below. In these screenshots, the player group “PULSE FLEX1+PULSE FLEX2” includes a plurality of players (e.g., PULSE FLEX1 and PULSE FLEX2), each of which is an independent playback device configured to playback a multimedia output from a multimedia source:</p> <div data-bbox="784 1199 1382 1755" data-label="Image"> </div> <p><i>See also, e.g.</i>, Ex. 24, 61-62.</p>
<p>accept via the user interface an input to</p>	<p>A device installed with the BluOS Controller App is a multimedia controller configured to accept via the user</p>

1 facilitate formation of
 2 the player group,
 3 wherein the input to
 4 facilitate formation of
 5 the player group
 6 indicates that at least
 7 two of the plurality of
 8 players in the local
 9 area network are to be
 10 included in the player
 11 group for
 12 synchronized playback
 13 of a multimedia output
 14 from the same
 15 multimedia source;

interface an input to facilitate formation of the player
 group, where the input indicates that at least two
 Bluesound Players are to be included in the player
 group for synchronized playback of a multimedia output
 from the same multimedia source.

For instance, the user interface provided by a device
 installed with the BluOS Controller App includes a
 “Players Drawer” through which the device accepts an
 input to facilitate formation of a group of two or more
 Bluesound Players that are configured to play back
 audio in synchrony. One example of this functionality
 is illustrated in the following sequence of screenshots:



See also, e.g., Ex. 62-64.

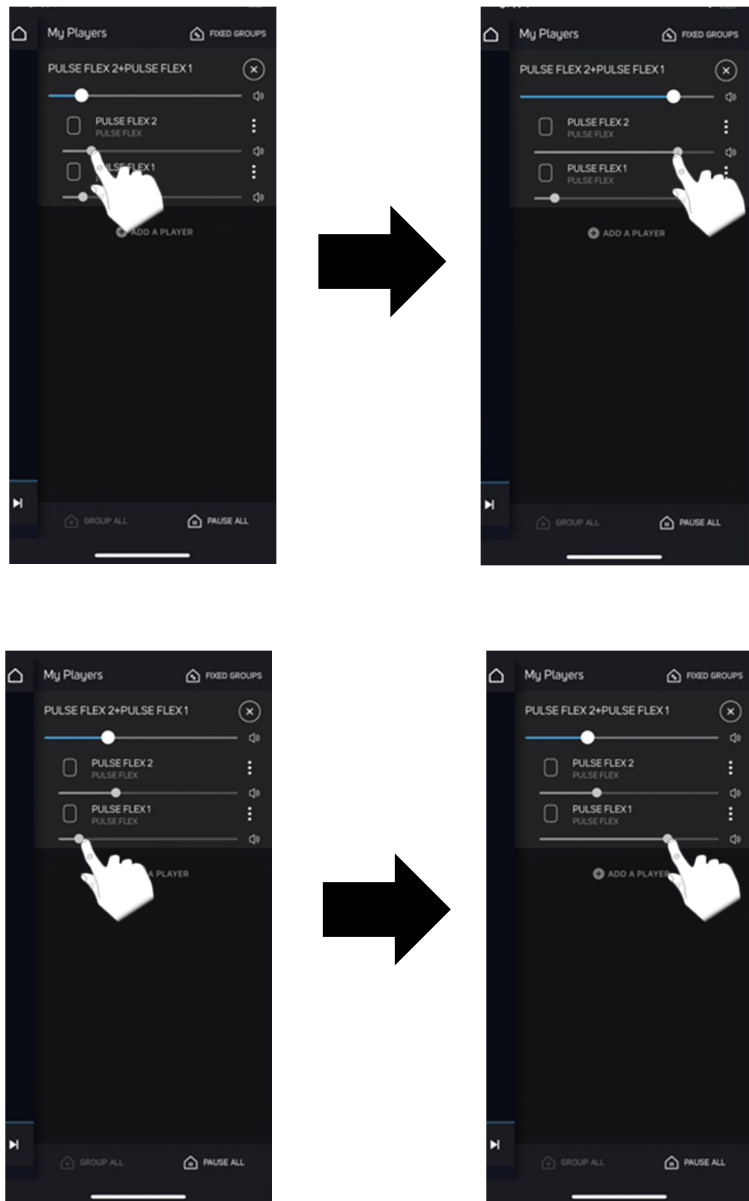
21 for any individual
 22 player in the player
 23 group, accept via the
 24 user interface a player-
 25 specific input to adjust
 26 a volume of that
 27 individual player,
 28 wherein the player-
 specific input to adjust
 the volume of that
 individual player

A device installed with the BluOS Controller App is a
 multimedia controller configured to, for any individual
 Bluesound Player in the player group, accept via the
 user interface a player-specific input to adjust a volume
 of that individual Bluesound Player, where the player-
 specific input to adjust the volume of that individual
 Bluesound Player causes that individual Bluesound
 Player to adjust its volume.

For instance, the user interface provided by a device
 installed with the BluOS Controller App includes a

1 causes that individual
 2 player to adjust its
 3 volume; and

4 player-specific volume slider for each individual
 5 Bluesound Player in a group through which the device
 6 accepts a player-specific input to adjust a volume of an
 7 individual Bluesound Player, which in turn causes the
 8 individual Bluesound Player to adjust its volume.
 9 Examples of this functionality are illustrated in the
 10 following sequences of screenshots:



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26 *See also, e.g., Ex. 38, 62.*

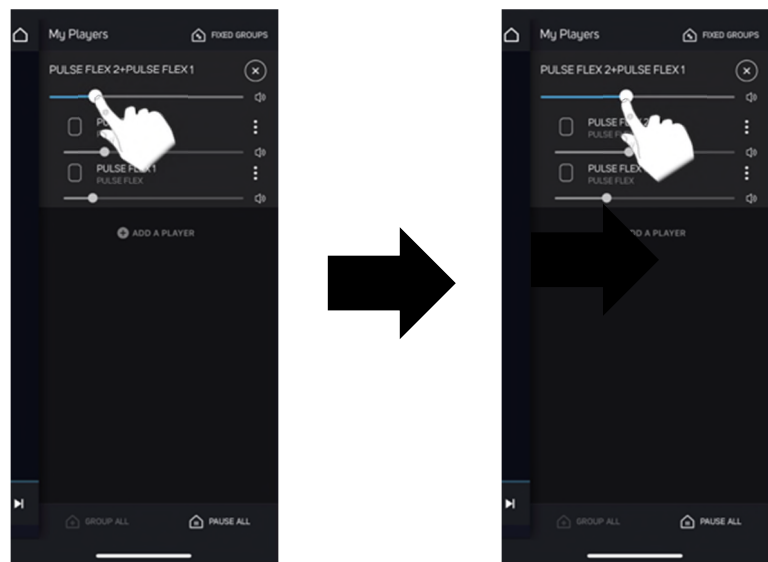
27 accept via the user
 28 interface a group-level

A device installed with the BluOS Controller App is a multimedia controller configured to accept via the user

1 input to adjust a
 2 volume associated
 3 with the player group,
 4 wherein the group-
 5 level input to adjust
 6 the volume associated
 7 with the player group
 8 causes each of the
 9 players in the player
 10 group to adjust its
 11 respective volume.

interface a group-level input to adjust a volume
 associated with the player group, where the group-level
 input to adjust the volume associated with the player
 group causes each of the Bluesound Players in the
 player group to adjust its respective volume.

For instance, the user interface provided by a device
 installed with the BluOS Controller App includes a
 group-level volume slider for a group of Bluesound
 Players through which the device accepts a group-level
 input to adjust a volume associated with the group of
 Bluesound Players, which in turn causes each
 Bluesound Player in the group to adjust its respective
 volume. One example of this functionality is illustrated
 in the following sequence of screenshots:



See also, e.g., Ex. 38, 62.

127. Additionally and/or alternatively, Defendants have indirectly
 infringed and continue to indirectly infringe one or more of the claims of the '949
 Patent, in violation of 35 U.S.C. § 271(b), by actively inducing users of the
 Bluesound System to directly infringe the one or more claims of the '949 Patent.
 In particular, (a) Defendants had actual knowledge of the '949 Patent or were
 willfully blind to its existence prior to (at least as early as November 1, 2018), and

1 no later than, the filing of this action (*see* ¶¶ 14-16 above), (b) Defendants
2 intentionally cause, urge, or encourage users of the Bluesound System to directly
3 infringe one or more claims of the '949 Patent by promoting, advertising, and
4 instructing customers and potential customers about the Bluesound System and uses
5 of the system, including infringing uses (*see* Ex. 24, 38, 62-64), and (c) Defendants
6 know (or should know) that their actions will induce users of the Bluesound System
7 to directly infringe one or more claims the '949 Patent, and (d) users of the
8 Bluesound System directly infringe one or more claims of the '949 Patent. For
9 instance, at a minimum, Defendants have supplied and continue to supply the
10 BluOS Controller Apps to customers while knowing that installation and use of the
11 BluOS Controller Apps will infringe one or more claims of the '949 Patent, and
12 that Defendants' customers then directly infringe one or more claims of the '949
13 Patent by installing and using the BluOS Controller Apps in accordance with
14 Defendants' product literature. *See, e.g.*, Ex. 65.

15 128. Additionally and/or alternatively, Defendants have indirectly
16 infringed and continue to indirectly infringe one or more of the claims of the '949
17 Patent, in violation of 35 U.S.C. § 271(c), by offering to sell or selling within the
18 United States, and/or importing into the United States, components in connection
19 with the Bluesound System that contribute to the direct infringement of the '949
20 Patent by users of the Bluesound System. In particular, (a) Defendants had actual
21 knowledge of the '949 Patent or were willfully blind to its existence prior to (at
22 least as early as November 1, 2018), and no later than, the filing of this action (*see*
23 ¶¶ 14-16 above), (b) Defendants offer for sale, sell, and/or import, in connection
24 with the Bluesound System, one or more material components of the invention of
25 the '949 Patent that are not staple articles of commerce suitable for substantial
26 noninfringing use, (c) Defendants know (or should know) that such component(s)
27 were especially made or especially adapted for use in an infringement of the '949
28 Patent, and (d) users of devices that comprise such material component(s) directly

1 infringe one or more claims of the ‘949 Patent. For instance, at a minimum,
2 Defendants offer for sale, sell, and/or import BluOS Controller Apps for installation
3 on user devices that meet one or more claims of the ‘949 Patent. *See, e.g.*, Ex. 65.
4 These BluOS Controller Apps are material components of the user devices that
5 meet the one or more claims of the ‘949 Patent. Further, Defendants especially
6 made and/or adapted the BluOS Controller Apps for use in the user devices that
7 meet the one or more claims of the ‘949 Patent, and the BluOS Controller Apps are
8 not a staple article of commerce suitable for substantial noninfringing use.
9 Defendants’ customers then directly infringe the one or more claims of the ‘949
10 Patent by installing and using the BluOS Controller Apps on the customers’ user
11 devices.

12 129. Defendants’ infringement of the ‘949 Patent is also willful because
13 Defendants (a) had actual knowledge of the ‘949 Patent or were willfully blind to
14 its existence prior to (at least as early as November 1, 2018), and no later than, the
15 filing of this action (*see* ¶¶ 14-16 above), (b) engaged in the aforementioned activity
16 despite an objectively high likelihood that Defendants’ actions constituted
17 infringement of the ‘949 Patent, and (c) this objectively-defined risk was either
18 known or so obvious that it should have been known to Defendants.

19 130. Additional allegations regarding Defendants’ pre-suit knowledge of
20 the ‘949 Patent and willful infringement will likely have evidentiary support after
21 a reasonable opportunity for discovery.

22 131. Sonos is in compliance with any applicable marking and/or notice
23 provisions of 35 U.S.C. § 287 with respect to the ‘949 Patent.

24 132. Sonos is entitled to recover from Defendants all damages that Sonos
25 has sustained as a result of Defendants’ infringement of the ‘949 Patent, including,
26 without limitation, a reasonable royalty and lost profits.

27 133. Defendants’ infringement of the ‘949 Patent was and continues to be
28 willful and deliberate, entitling Sonos to enhanced damages.

1 134. Defendants’ infringement of the ‘949 Patent is exceptional and entitles
 2 Sonos to attorneys’ fees and costs incurred in prosecuting this action under 35
 3 U.S.C. § 285.

4 135. Defendants’ infringement of the ‘949 Patent has caused irreparable
 5 harm (including the loss of market share) to Sonos and will continue to do so unless
 6 enjoined by this Court.

7 **COUNT II: INFRINGEMENT OF U.S. PATENT NO. 9,195,258**

8 136. Sonos incorporates by reference and re-alleges paragraphs 25-33 and
 9 48-61 of this Complaint as if fully set forth herein.

10 137. Defendants and/or users of the Bluesound System have directly
 11 infringed (either literally or under the doctrine of equivalents) and continue to
 12 directly infringe one or more of the claims of the ‘258 Patent, in violation of 35
 13 U.S.C. § 271(a), by making, using, offering for sale, and/or selling the Bluesound
 14 System within the United States and/or importing the Bluesound System into the
 15 United States without authority or license.

16 138. As just one non-limiting example, set forth below is an exemplary
 17 infringement claim chart for claim 17 of the ‘258 Patent in connection with the
 18 Bluesound System. This claim chart is based on publicly available information.
 19 Sonos reserves the right to modify this claim chart, including, for example, on the
 20 basis of information about the Bluesound System that it obtains during discovery.

Claim: 17	Bluesound
17. A first zone player comprising:	At least each of Defendants’ PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i, PULSE, PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i, PULSE SUB, NODE, NODE 2, NODE 2i, POWERNODE, POWERNODE 2, POWERNODE 2i, VAULT, VAULT 2, VAULT 2i, and any other “BluOS Enabled” or “BluOS Ready” audio player (e.g., the NPM-1) comprises a “zone player” as recited in claim 17, and a computing device installed with a BluOS

1		Controller App comprises a “controller” as recited in
2		claim 17. <i>See, e.g.</i> , Ex. 24, 43, 61.
3	a network interface	Each of the foregoing Bluesound Players includes a
4	configured to	network interface configured to interface the Bluesound
5	interface the first	Player with at least a LAN, such as a WiFi interface
6	zone player with at	and/or an Ethernet interface. <i>See, e.g.</i> , Ex. 43, 61, 66.
7	least a local area	
8	network (LAN);	
9	a device clock	Each of the foregoing Bluesound Players includes a
10	configured to	device clock configured to generate clock time
11	generate clock time	information for the Bluesound Player. <i>See, e.g.</i> , Ex. 61.
12	information for the	
13	first zone player;	
14	one or more	Each of the foregoing Bluesound Players includes one or
15	processors; and	more processors. <i>See, e.g.</i> , Ex. 61.
16		
17	a tangible, non-	Each of the foregoing Bluesound Players includes a
18	transitory computer-	tangible, non-transitory computer-readable memory
19	readable memory	comprising executable program instructions that enable
20	having instructions	the Bluesound Player to perform the functions identified
21	stored thereon that,	below. <i>See, e.g.</i> , Ex. 61.
22	when executed by the	
23	one or more	
24	processors, cause the	
25	first zone player to:	
26	receive control	Each of the foregoing Bluesound Players comprise
27	information from any	program instructions that, when executed by the
28	one of a plurality of	Bluesound Player’s one or more processors, cause that
	controllers over the	Bluesound Player to receive control information from
	LAN via the network	any one of a plurality of devices installed with a BluOS
	interface, wherein the	Controller App over the LAN via the network interface,
	received control	where the received control information comprises a
	information	direction for the Bluesound Player to enter into a
	comprises a direction	synchrony group with at least a second Bluesound
	for the first zone	Player.
	player to enter into a	
	synchrony group with	For instance, each of the foregoing Bluesound Players is
	at least a second zone	programmed with the capability to receive over a LAN,
	player;	from any of a plurality of devices installed with the

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	<p>BluOS Controller App, a direction to enter into a dynamic or fixed group of two or more Bluesound Players that are configured to play back audio in synchrony with one another. One example of such a direction takes the form of an HTTP “AddSlave” command. <i>See also, e.g., Ex. 61, 67.</i></p>
<p>in response to the direction, enter into the synchrony group with the second zone player,</p>	<p>Each of the foregoing Bluesound Players comprises program instructions that, when executed by the Bluesound Player’s one or more processors, cause that Bluesound Player to, in response to the direction, enter into the synchrony group with the second Bluesound Player.</p> <p>For instance, each of the foregoing Bluesound Players is programmed such that, in response to receiving a direction to enter into a group of Bluesound Players, the Bluesound Player functions to enter into a group with one or more other Bluesound Players, which involves an exchange of data packets with the one or more other Bluesound Players in the group (e.g., “SetMaster” packets). <i>See also, e.g., Ex. 61-62, 67.</i></p> <p>In such a group, the Bluesound Player that receives the direction to enter into the synchrony group may be referred to as the “master” or “primary” of the group and every other Bluesound Player in the group may be referred to as a “slave.” <i>See, e.g., Ex. 68.</i></p>
<p>wherein in the synchrony group, the first and second zone players are configured to playback audio in synchrony based at least in part on (i) audio content, (ii) playback timing information associated with the</p>	<p>Once grouped, Bluesound Players are configured to play back audio in synchrony based at least in part on (i) audio content, (ii) playback timing information associated with the audio content that is generated by the master Bluesound Player in the group, and (iii) clock time information for the master Bluesound Player in the group, where the generated playback timing information and the clock time information are transmitted from the master Bluesound Player to the slave Bluesound Player(s), and where the Bluesound Players in the group remain independently clocked while playing back audio in synchrony.</p>

<p>1 audio content, 2 wherein the playback 3 timing information is 4 generated by one of 5 the first or second 6 zone players, and (iii) 7 clock time 8 information for the 9 one of the first or 10 second zone players, 11 and wherein the 12 generated playback 13 timing information 14 and the clock time 15 information are 16 transmitted from the 17 one of the first or 18 second zone players 19 to the other of the 20 first or second zone 21 players, wherein the 22 first and second zone 23 players remain 24 independently 25 clocked while playing 26 back audio in 27 synchrony; and 28</p>	<p>For instance, Bluesound states that once Bluesound Players have been grouped, the Bluesound Players are configured to play audio in “perfect sync.” <i>See, e.g., Ex. 43-44, 61.</i></p> <p>Further, while in a group, the Bluesound Players in the group are configured to play back audio in synchrony based on clock time information for the “master” Bluesound Player, playback timing information generated by the “master” Bluesound Player, and audio information that is sent from the “master” Bluesound Player to each “slave” Bluesound Player in the group via data packets – including but not limited to “playPoint” data packets, “gotNextTrack” data packets, and TCP packets.</p> <p>Further yet, while playing back audio in synchrony as part of a group, each Bluesound Player in the group continues to operate in accordance with its own respective clock. <i>See, e.g., Ex. 61.</i></p>
<p>transmit status information to at least one of the plurality of controllers over the LAN via the network interface, wherein the status information comprises an indication of a status of the synchrony group.</p>	<p>Each of the foregoing Bluesound Players comprises program instructions that, when executed by the Bluesound Player’s one or more processors, cause the Bluesound Player to transmit status information to at least one of the plurality of devices installed with the BluOS Controller App over the LAN via the network interface, where the status information comprises an indication of a status of the synchrony group.</p> <p>For instance, while a Bluesound Player is serving as a master of a Bluesound group, the Bluesound Player is configured to send status information to any device running the BluOS Controller App on the same LAN that provides an indication of the status of the group,</p>

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	including but not limited to status information that provides an indication of the existence of the group, the current membership of the group, and/or the current playback status of the group.
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139. Additionally and/or alternatively, Defendants have indirectly infringed and continue to indirectly infringe one or more of the claims of the ‘258 Patent, in violation of 35 U.S.C. § 271(b), by actively inducing users of the Bluesound System to directly infringe the one or more claims of the ‘258 Patent. In particular, (a) Defendants had actual knowledge of the ‘258 Patent or were willfully blind to its existence prior to (at least as early as November 1, 2018), and no later than, the filing of this action (*see* ¶¶ 14-16 above), (b) Defendants intentionally cause, urge, or encourage users of the Bluesound System to directly infringe one or more claims of the ‘258 Patent by promoting, advertising, and instructing customers and potential customers about the Bluesound System and uses of the system, including infringing uses (*see* Ex. 24, 44, 62-64, 67-68), and (c) Defendants know (or should know) that their actions will induce users of the Bluesound System to directly infringe one or more claims the ‘258 Patent, and (d) users of the Bluesound System directly infringe one or more claims of the ‘258 Patent. For instance, at a minimum, Defendants have supplied and continue to supply Bluesound Players to customers while knowing that use of these products will infringe one or more claims of the ‘258 Patent, and that Defendants’ customers then directly infringe one or more claims of the ‘258 Patent by using these Bluesound Players in accordance with Defendants’ product literature.

140. Additionally and/or alternatively, Defendants have indirectly infringed and continue to indirectly infringe one or more of the claims of the ‘258 Patent, in violation of 35 U.S.C. § 271(c), by offering to sell or selling within the United States, and/or importing into the United States, components in connection

1 with the Bluesound System that contribute to the direct infringement of the ‘258
2 Patent by users of the Bluesound System. In particular, (a) Defendants had actual
3 knowledge of the ‘258 Patent or were willfully blind to its existence prior to (at
4 least as early as November 1, 2018), and no later than, the filing of this action (*see*
5 ¶¶ 14-16 above), (b) Defendants offer for sale, sell, and/or import, in connection
6 with the Bluesound System, one or more material components of the invention of
7 the ‘258 Patent that are not staple articles of commerce suitable for substantial
8 noninfringing use, (c) Defendants know (or should know) that such component(s)
9 were especially made or especially adapted for use in an infringement of the ‘258
10 Patent, and (d) users of devices that comprise such material component(s) directly
11 infringe one or more claims of the ‘258 Patent. For instance, at a minimum,
12 Defendants offer for sale, sell, and/or import software updates for Bluesound
13 Players that meet one or more claims of the ‘258 Patent. *See, e.g.*, Ex. 65. These
14 software updates are material components of the Bluesound Players that meet the
15 one or more claims of the ‘258 Patent. Further, Defendants especially made and/or
16 adapted these software updates for use in the Bluesound Players that meet the one
17 or more claims of the ‘258 Patent, and these software updates are not staple articles
18 of commerce suitable for substantial noninfringing use. Defendants’ customers
19 then directly infringe the one or more claims of the ‘258 Patent by installing and
20 using software updates on the Bluesound Players.

21 141. Defendants’ infringement of the ‘258 Patent is also willful because
22 Defendants (a) had actual knowledge of the ‘258 Patent or were willfully blind to
23 its existence prior to (at least as early as November 1, 2018), and no later than, the
24 filing of this action (*see* ¶¶ 14-16 above), (b) engaged in the aforementioned activity
25 despite an objectively high likelihood that Defendants’ actions constituted
26 infringement of the ‘258 Patent, and (c) this objectively-defined risk was either
27 known or so obvious that it should have been known to Defendants.

28 142. Additional allegations regarding Defendants’ pre-suit knowledge of

1 the '258 Patent and willful infringement will likely have evidentiary support after
2 a reasonable opportunity for discovery.

3 143. Sonos is in compliance with any applicable marking and/or notice
4 provisions of 35 U.S.C. § 287 with respect to the '258 Patent.

5 144. Sonos is entitled to recover from Defendants all damages that Sonos
6 has sustained as a result of Defendants' infringement of the '258 Patent, including,
7 without limitation, a reasonable royalty and lost profits.

8 145. Defendants' infringement of the '258 Patent was and continues to be
9 willful and deliberate, entitling Sonos to enhanced damages.

10 146. Defendants' infringement of the '258 Patent is exceptional and entitles
11 Sonos to attorneys' fees and costs incurred in prosecuting this action under 35
12 U.S.C. § 285.

13 147. Defendants' infringement of the '258 Patent has caused irreparable
14 harm (including the loss of market share) to Sonos and will continue to do so unless
15 enjoined by this Court.

16 **COUNT III: INFRINGEMENT OF U.S. PATENT NO. 9,219,959**

17 148. Sonos incorporates by reference and re-alleges paragraphs 25-33 and
18 62-74 of this Complaint as if fully set forth herein.

19 149. Defendants and/or users of the Bluesound System have directly
20 infringed (either literally or under the doctrine of equivalents) and continue to
21 directly infringe one or more of the claims of the '959 Patent, in violation of 35
22 U.S.C. § 271(a), by making, using, offering for sale, and/or selling the Bluesound
23 System (e.g., PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i,
24 PULSE, PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i, and
25 PULSE SUB) within the United States and/or importing the Bluesound System into
26 the United States without authority or license.

27 150. As just one non-limiting example, set forth below is an infringement
28 claim chart of exemplary claim 10 of the '959 Patent in connection with the

1 Bluesound System. This claim chart is based on publicly available information.
 2 Sonos reserves the right to modify this claim chart, including, for example, on the
 3 basis of information about the Bluesound System that it obtains during discovery.

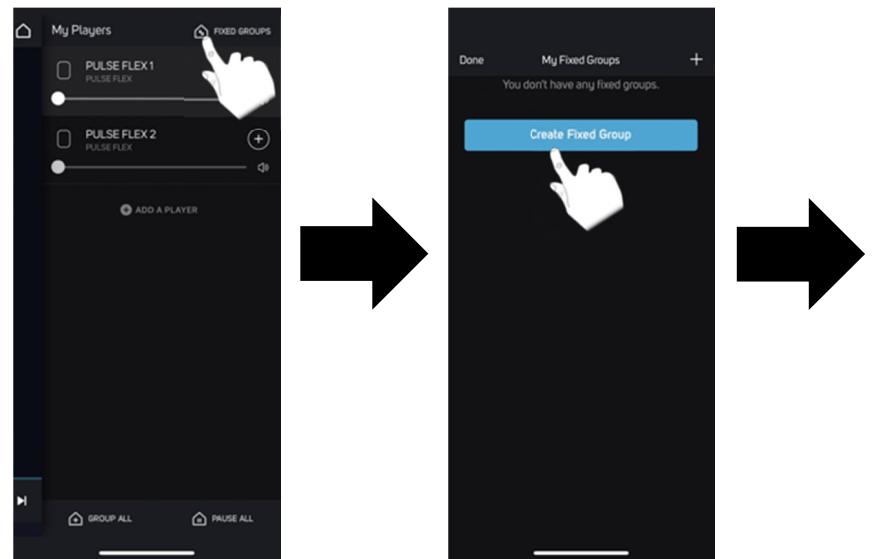
Claim: 10	Bluesound
10. A playback device configured to output audio in a multi-channel listening environment, the playback device comprising:	At least each of Defendants' PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i, PULSE, PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i, and PULSE SUB players comprises a "playback device" as recited in claim 10, and a computing device installed with a BluOS Controller App comprises a "controller" as recited in claim 10. <i>See, e.g., Ex. 24, 43-44, 61.</i>
a network interface configured to receive audio data over a network;	Each of the foregoing Bluesound Players includes a network interface configured to receive audio data over a network, such as a WiFi interface and/or an Ethernet interface. <i>See, e.g., Ex. 24, 43-44, 61.</i>
a plurality of speaker drivers configured to output audio based on the audio data;	Each of the foregoing Bluesound Players includes a plurality of speaker drivers configured to output audio based on the audio data. <i>See, e.g., Ex. 61.</i>
one or more processors; and	Each of the foregoing Bluesound Players includes one or more processors. <i>See, e.g., Ex. 61.</i>
tangible, non-transitory, computer readable memory comprising instructions encoded therein, wherein the instructions, when executed by the one or more processors, cause the playback device to	Each of the foregoing Bluesound Players includes a tangible, non-transitory computer readable memory encoded with program instructions that, when executed by the Bluesound Player's one or more processors, cause that Bluesound Player to perform the functions identified below. <i>See, e.g., Ex. 61.</i>
(i) receive a signal from a controller over	Each of the foregoing Bluesound Players comprises program instructions that, when executed by the

1 the network, wherein
2 the signal comprises
3 an instruction for the
4 playback device to
5 pair with one or more
6 playback devices,

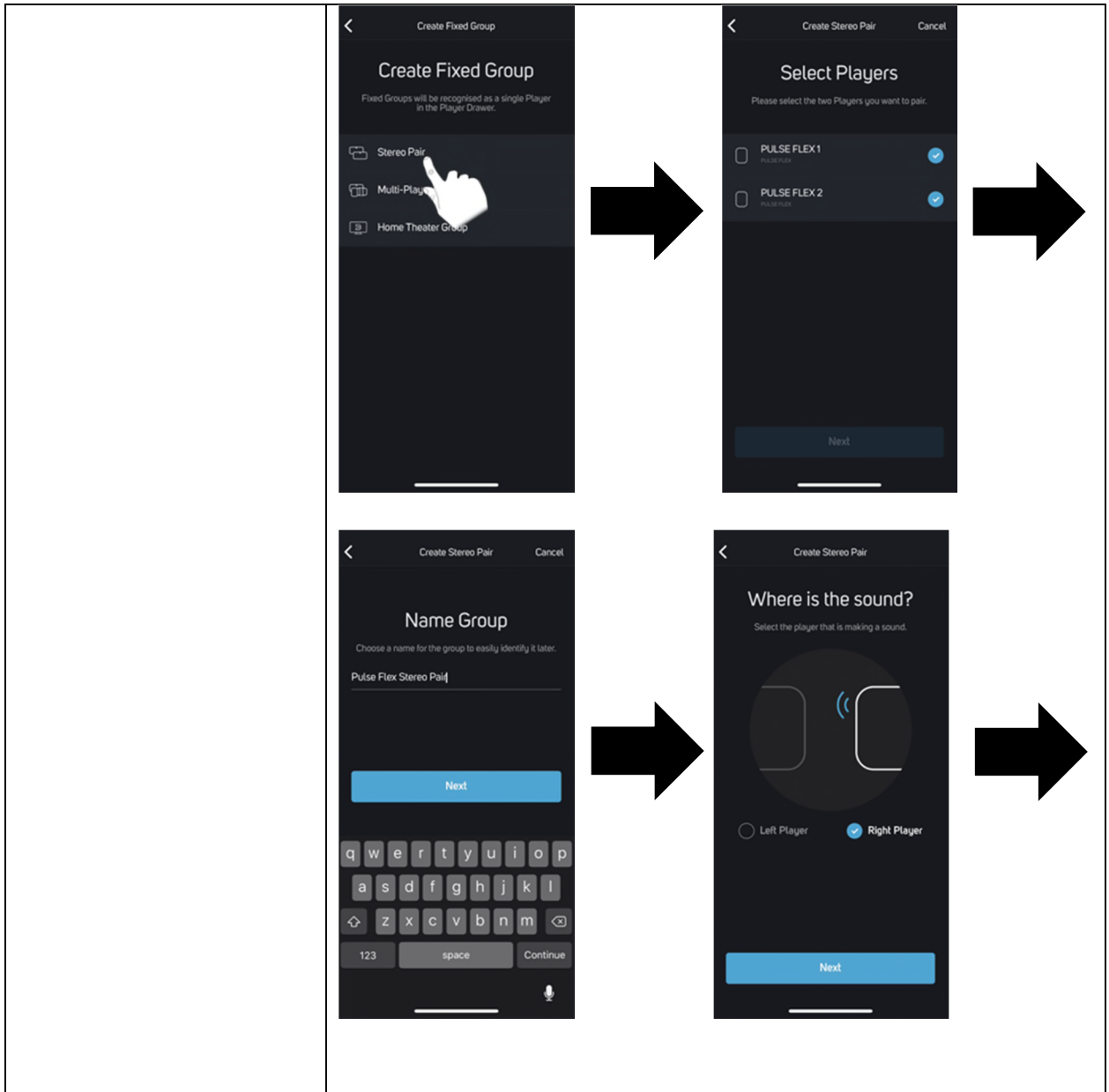
Bluesound Player's one or more processors, cause the
Bluesound Player to receive a signal from a device
installed with a BluOS Controller App over the network,
where the signal comprises an instruction for the
Bluesound Player to enter into a pair with one or more
Bluesound Players – which is a “configuration involving
two or more playback devices that have different
playback roles.” *See* Ex. 69.

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8 For instance, each of the foregoing Bluesound Players is
9 programmed with the capability to receive, from a
10 device installed with the BluOS controller app, an
11 instruction to enter into a “Fixed Group” with one or
12 more other Bluesound Players that can take the form of a
13 “Stereo Pair” or a “Home Theatre Group,” which are
14 configurations involving two or more Bluesound Players
15 that have different playback roles. *See, e.g.,* Ex. 50, 70-
16 71.

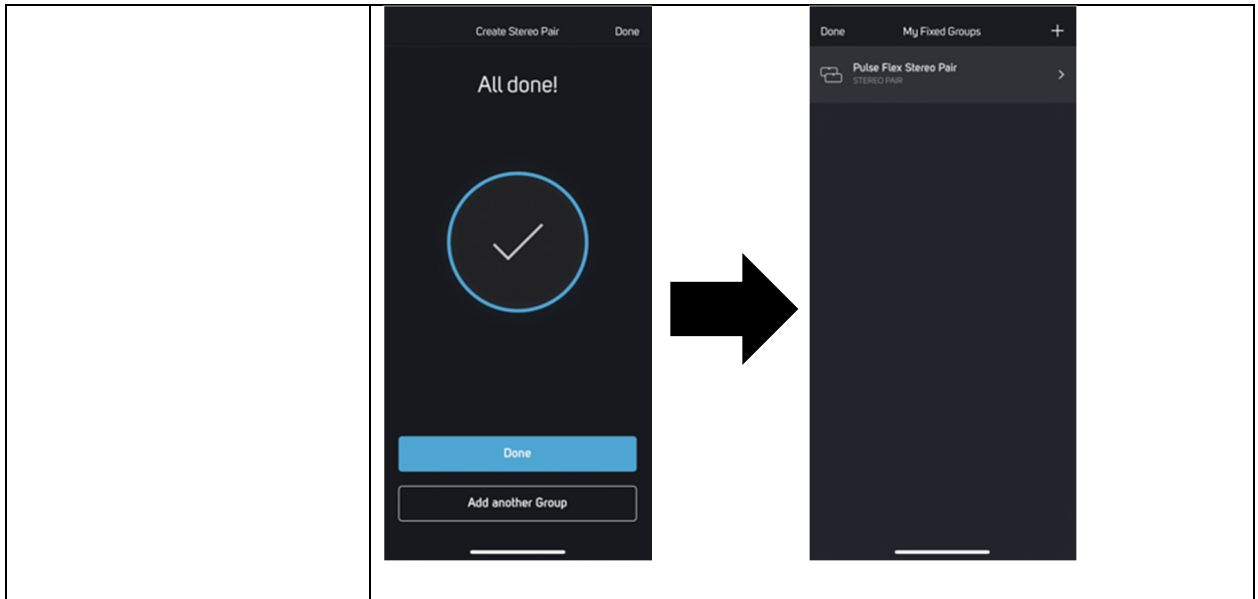
17 This functionality is illustrated by the following
18 sequence of screenshots:



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(ii) process the audio data before the playback device outputs audio from the plurality of speaker drivers,

Each of the foregoing Bluesound Players comprises program instructions that, when executed by the Bluesound Player’s one or more processors, cause the Bluesound Player to process the audio data before the Bluesound Player outputs audio from the plurality of speaker drivers.

For instance, the foregoing Bluesound Players are programmed with the capability to perform various types of audio processing on received audio data before outputting audio based on that audio data. *See, e.g., Ex. 43, 50, 61, 70-71.*

(iii) determine that a type of pairing of the playback device comprises one of at least a first type of pairing or a second type of pairing,

Each of the foregoing Bluesound Players comprises program instructions that, when executed by the Bluesound Player’s one or more processors, cause the Bluesound Player to determine that a type of pairing of the Bluesound Player comprises one of at least a first type of pairing or a second type of pairing.

For instance, each of the foregoing Bluesound Players is programmed with the capability to operate in accordance with a particular type of pairing, which could either be a “no pair” type of pairing, a “Stereo Pair” type of pairing, or a “Home Theatre Group” type of pairing. *See, e.g., Ex. 50, 70-71.*

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	<p>Further, each of the foregoing Bluesound Players is programmed with the capability to determine its type of pairing at various times, including but not limited to when a Bluesound Player receives an instruction to enter or leave a “Fixed Group” (e.g., a “Stereo Pair” or “Home Theatre Group”), when the Bluesound Player is performing certain functions in accordance with its current type of pairing, and when the Bluesound Player powers up.</p>
<p>(iv) configure the playback device to perform a first equalization of the audio data before outputting audio based on the audio data from the plurality of speaker drivers when the type of pairing is determined to comprise the first type of pairing, and</p> <p>(v) configure the playback device to perform a second equalization of the audio data before outputting audio based on the audio data from the plurality of speaker drivers when the type of pairing is determined to comprise the second type of pairing.</p>	<p>Each of the foregoing Bluesound Players comprises program instructions that, when executed by the Bluesound Player’s one or more processors, cause the Bluesound Player to configure itself to (1) perform a first equalization of the audio data before outputting audio based on the audio data from the plurality of speaker drivers when the type of pairing is determined to comprise the first type of pairing and (2) perform a second equalization of the audio data before outputting audio based on the audio data from the plurality of speaker drivers when the type of pairing is determined to comprise the second type of pairing, where performing an equalization comprises “modifying the output audio data by performing one or more of the following: adjusting one or more parameters related to speaker drivers, such as gain, frequency response, channel output, phase, or time delay; adjusting amplifier gain of the playback device; or using one or more filters.” <i>See</i> Ex. 69.</p> <p>For instance, each of the foregoing Bluesound Players is programmed with the capability to change its equalization (including but not limited to its channel output) based on pairing type when its type of pairing changes from one of the aforementioned types of pairing (e.g., a “no pair” type of pairing) to another of the aforementioned types of pairing (e.g., a “Stereo Pair” or “Home Theatre Group” type of pairing). <i>See, e.g.,</i> Ex. 50, 70-71.</p>

1 151. Additionally and/or alternatively, Defendants have indirectly
2 infringed and continue to indirectly infringe one or more of the claims of the ‘959
3 Patent, in violation of 35 U.S.C. § 271(b), by actively inducing users of the
4 Bluesound System to directly infringe the one or more claims of the ‘959 Patent.
5 In particular, (a) Defendants had actual knowledge of the ‘959 Patent or were
6 willfully blind to its existence prior to (at least as early as November 1, 2018), and
7 no later than, the filing of this action (*see* ¶¶ 14-16 above), (b) Defendants
8 intentionally cause, urge, or encourage users of the Bluesound System to directly
9 infringe one or more claims of the ‘959 Patent by promoting, advertising, and
10 instructing customers and potential customers about the Bluesound System and uses
11 of the system, including infringing uses (*see* Ex. 50, 70-71), and (c) Defendants
12 know (or should know) that their actions will induce users of the Bluesound System
13 to directly infringe one or more claims the ‘959 Patent, and (d) users of the
14 Bluesound System directly infringe one or more claims of the ‘959 Patent. For
15 instance, at a minimum, Defendants have supplied and continue to supply
16 Bluesound Players (e.g., PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE
17 MINI 2i, PULSE, PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE
18 SOUNDBAR 2i, and PULSE SUB) to customers while knowing that use of these
19 products will infringe one or more claims of the ‘959 Patent, and that Defendants’
20 customers then directly infringe one or more claims of the ‘959 Patent by using
21 these Bluesound Players in accordance with Defendants’ product literature.

22 152. Additionally and/or alternatively, Defendants have indirectly
23 infringed and continue to indirectly infringe one or more of the claims of the ‘959
24 Patent, in violation of 35 U.S.C. § 271(c), by offering to sell or selling within the
25 United States, and/or importing into the United States, components in connection
26 with the Bluesound System that contribute to the direct infringement of the ‘959
27 Patent by users of the Bluesound System. In particular, (a) Defendants had actual
28 knowledge of the ‘959 Patent or were willfully blind to its existence prior to (at

1 least as early as November 1, 2018), and no later than, the filing of this action (*see*
2 ¶¶ 14-16 above), (b) Defendants offer for sale, sell, and/or import, in connection
3 with the Bluesound System, one or more material components of the invention of
4 the '959 Patent that are not staple articles of commerce suitable for substantial
5 noninfringing use, (c) Defendants know (or should know) that such component(s)
6 were especially made or especially adapted for use in an infringement of the '959
7 Patent, and (d) users of devices that comprise such material component(s) directly
8 infringe one or more claims of the '959 Patent. For instance, at a minimum,
9 Defendants offer for sale, sell, and/or import software updates for Bluesound
10 Players (e.g., PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i,
11 PULSE, PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i, and
12 PULSE SUB) that meet one or more claims of the '959 Patent. *See, e.g.*, Ex. 65.
13 These software updates are material components of the Bluesound Players that meet
14 the one or more claims of the '959 Patent. Further, Defendants especially made
15 and/or adapted these software updates for use in the Bluesound Players that meet
16 the one or more claims of the '959 Patent, and these software updates are not staple
17 articles of commerce suitable for substantial noninfringing use. Defendants'
18 customers then directly infringe the one or more claims of the '959 Patent by
19 installing and using software updates on the Bluesound Players.

20 153. Defendants' infringement of the '959 Patent is also willful because
21 Defendants (a) had actual knowledge of the '959 Patent or were willfully blind to
22 its existence prior to (at least as early as November 1, 2018), and no later than, the
23 filing of this action (*see* ¶¶ 14-16 above), (b) engaged in the aforementioned activity
24 despite an objectively high likelihood that Defendants' actions constituted
25 infringement of the '959 Patent, and (c) this objectively-defined risk was either
26 known or so obvious that it should have been known to Defendants.

27 154. Additional allegations regarding Defendants' pre-suit knowledge of
28 the '959 Patent and willful infringement will likely have evidentiary support after

1 a reasonable opportunity for discovery.

2 155. Sonos is in compliance with any applicable marking and/or notice
3 provisions of 35 U.S.C. § 287 with respect to the '959 Patent.

4 156. Sonos is entitled to recover from Defendants all damages that Sonos
5 has sustained as a result of Defendants' infringement of the '959 Patent, including,
6 without limitation, a reasonable royalty and lost profits.

7 157. Defendants' infringement of the '959 Patent was and continues to be
8 willful and deliberate, entitling Sonos to enhanced damages.

9 158. Defendants' infringement of the '959 Patent is exceptional and entitles
10 Sonos to attorneys' fees and costs incurred in prosecuting this action under 35
11 U.S.C. § 285.

12 159. Defendants' infringement of the '959 Patent has caused irreparable
13 harm (including the loss of market share) to Sonos and will continue to do so unless
14 enjoined by this Court.

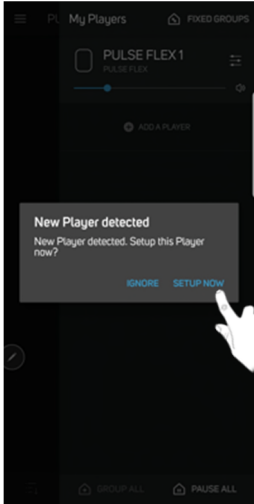
15 **COUNT IV: INFRINGEMENT OF U.S. PATENT NO. 8,868,698**

16 160. Sonos incorporates by reference and re-alleges paragraphs 25-33 and
17 75-86 of this Complaint as if fully set forth herein.

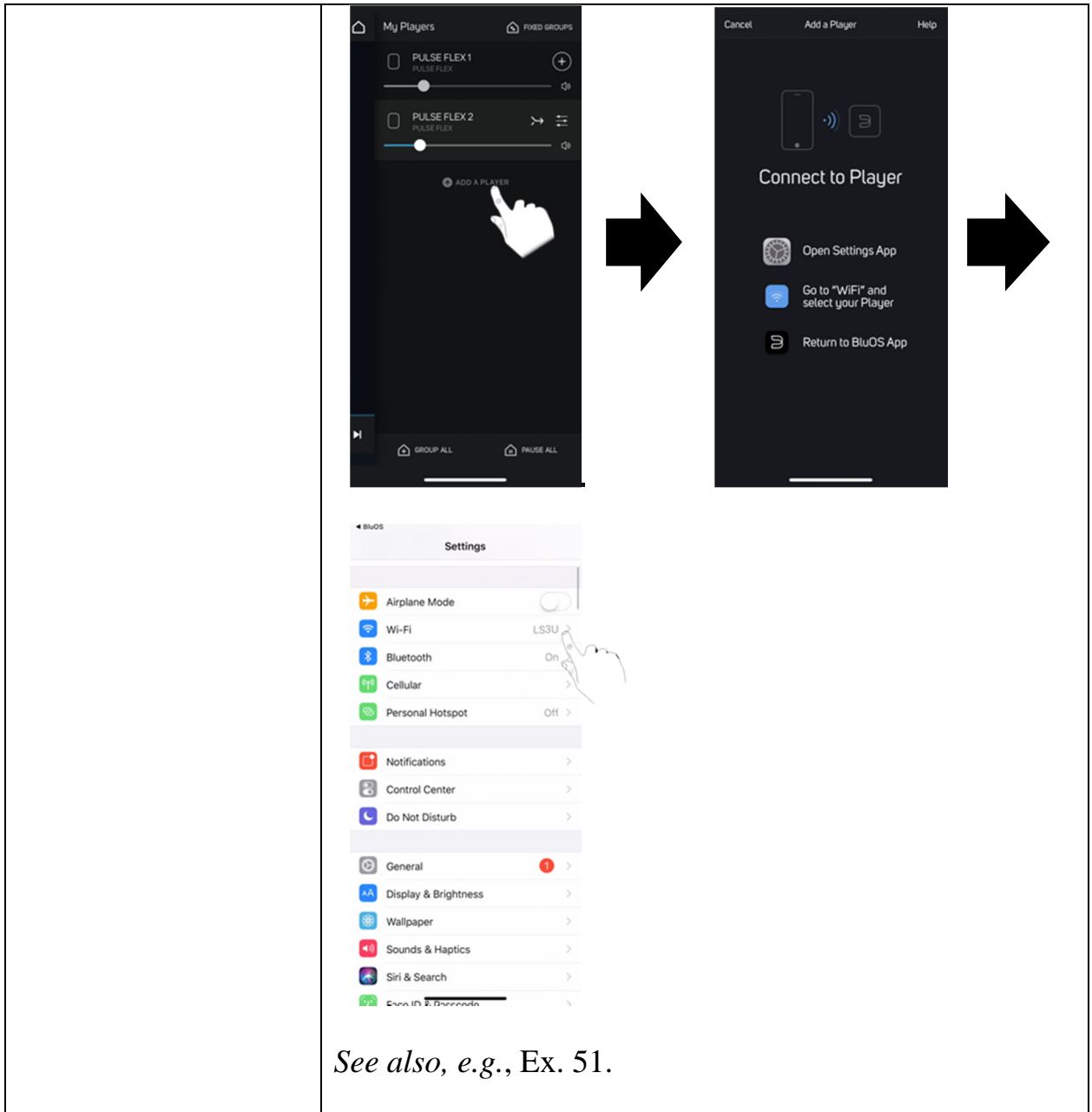
18 161. Defendants and/or users of the Bluesound System have directly
19 infringed (either literally or under the doctrine of equivalents) and continue to
20 directly infringe one or more of the claims of the '698 Patent, in violation of 35
21 U.S.C. § 271(a), by making, using, offering for sale, and/or selling the Bluesound
22 System within the United States and/or importing the Bluesound System into the
23 United States without authority or license.

24 162. As just one non-limiting example, set forth below is an exemplary
25 infringement claim chart for claim 9 of the '698 Patent in connection with the
26 Bluesound System. This claim chart is based on publicly available information.
27 Sonos reserves the right to modify this claim chart, including, for example, on the
28 basis of information about the Bluesound System that it obtains during discovery.

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Claim: 9	Bluesound
<p>9. A non-transitory computer-readable storage medium including a set of instructions for execution by a processor, the set of instructions, when executed, facilitating connection of a device to a secure playback network via a method comprising:</p>	<p>At least each of Defendants’ PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i, PULSE, PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i, PULSE SUB, NODE, NODE 2, NODE 2i, POWERNODE, POWERNODE 2, POWERNODE 2i, VAULT, VAULT 2, VAULT 2i, and any other “BluOS Enabled” or “BluOS Ready” audio player (e.g., the NPM-1) comprises a “playback device” as recited in claim 9, and any device installed with a BluOS Controller App comprises a “controller device” that includes a processor, a non-transitory computer-readable storage medium, and a set of executable instructions that, when executed, facilitate connection of a Bluesound Player to a secure playback network via the functions recited in claim 9. <i>See, e.g., Ex. 24, 43-44, 61.</i></p>
<p>receiving a manual user action at a controller device;</p>	<p>A device installed with the BluOS Controller App is a controller device that is programmed with the capability to receive a manual user action.</p> <p>For instance, a device installed with the BluOS Controller App is programmed with the capability to receive manual input that initiates a process for setting up a Bluesound Player and thereby causes the device to enter a listen mode. One example of this functionality is illustrated in the following sequence of screenshots:</p> 

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See also, e.g., Ex. 51.

in response to the manual user action, causing the controller device to enter a listen mode to listen for a first message from a playback device over a first network, the first message indicating that the playback

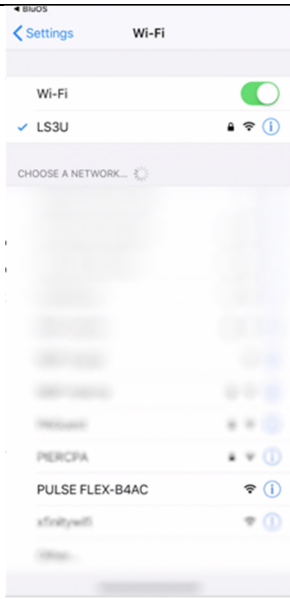
A device installed with the BluOS Controller App is a controller device that is programmed such that, in response to the manual user action, the device enters a listen mode to listen for a first message from a Bluesound Player over a first network, where the first message indicates that the Bluesound Player is available for configuration.

For instance, a device installed with the BluOS Controller App is programmed such that, in response to receiving manual input that initiates a process for setting

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<p>device is available for configuration;</p>	<p>up a Bluesound Player, the device enters a listen mode and begins listening for a message from a Bluesound Player over a first network that indicates that the Bluesound Player is available for configuration. <i>See also, e.g., Ex. 51.</i></p>
<p>receiving, by the controller device, the first message from the playback device over the first network;</p>	<p>A device installed with the BluOS Controller App is a controller device that is programmed with the capability to receive a first message from a Bluesound Player over a first network indicating that the Bluesound Player is available for configuration.</p> <p>For instance, a device installed with the BluOS Controller App is programmed such that, after entering a listening mode in the manner described above, the device receives a message from a Bluesound Player over a first network that indicates that the Bluesound Player is available for configuration. This functionality is illustrated in the following screenshots:</p> <div data-bbox="938 1031 1219 1591" data-label="Image"> <p>The screenshot shows a dark-themed mobile application window. At the top, there is a close button (an 'x' icon). Below it, the text 'Player detected' is displayed in a light color. Underneath, a smaller line of text reads 'Choose the Player you want to setup.' In the center, there is a small icon of a speaker or device next to the text 'PULSE FLEX-B4AC' and 'NEEDS SETUP' below it. At the bottom of the screen, there is a link that says 'OPEN TROUBLESHOOTING'.</p> </div>

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	 <p><i>See also, e.g., Ex. 51.</i></p>
<p>in response to receiving the first message, the controller device transmitting a second message to the playback device over the first network, wherein the second message requests the playback device's network configuration information;</p>	<p>A device installed with the BluOS Controller App is a controller device that is programmed such that, in response to receiving the first message, the device transmits a second message to the Bluesound Player over the first network, where the second message requests the Bluesound Player's network configuration information.</p> <p>For instance, a device installed with the BluOS Controller App is programmed such that, in response to receiving a first message from a Bluesound Player indicating that the Bluesound Player is available for configuration, the device transmits a second message to the Bluesound Player that requests the Bluesound Player's network configuration information. One example of such a second message takes the form of a "SyncStatus" request. <i>See also, e.g., Ex. 51.</i></p>
<p>receiving, by the controller device, a third message from the playback device over the first network, wherein the third message includes the playback device's</p>	<p>A device installed with the BluOS Controller App is a controller device that is programmed with the capability to receive a third message from a Bluesound Player over a first network, where the third message includes the Bluesound Player's network configuration information.</p> <p>For instance, a device installed with the BluOS Controller App is programmed such that, after</p>

<p>1 2 3 4 5 6</p>	<p>network configuration information;</p>	<p>transmitting a second message to the Bluesound Player that requests the Bluesound Player's network configuration information, the device is capable of receiving a third message from the Bluesound Player that includes the Bluesound Player's network configuration information. One example of such a third message takes the form of a "SyncStatus" response. <i>See also, e.g., Ex. 51.</i></p>
<p>7 8 9 10 11 12 13 14 15 16</p>	<p>in response to receiving the third message, determining whether the playback device is configured for the secure playback network; and</p>	<p>A device installed with the BluOS Controller App is a controller device that is programmed such that, in response to receiving the third message, the device determines whether the Bluesound Player is configured for a secure playback network.</p> <p>For instance, a device installed with the BluOS Controller App is programmed such that, in response to receiving a third message that includes a Bluesound Player's network configuration information, the device determines whether the Bluesound Player is configured for a secure Wi-Fi network based on the contents of the third message (e.g., based on the contents of a "SyncStatus" response). <i>See also, e.g., Ex. 51.</i></p>
<p>17 18 19 20 21 22 23 24 25 26 27 28</p>	<p>sending, by the controller device based on the third message, a fourth message to the playback device over the first network, wherein the fourth message instructs the playback device to reconfigure its network configuration information according to network configuration parameters, including a security parameter,</p>	<p>A device installed with the BluOS Controller App is a controller device that is programmed such that, based on the third message, the device sends a fourth message to the Bluesound Player over the first network that instructs the Bluesound Player to reconfigure its network configuration information according to network configuration parameters, including a security parameter, provided by the device to the Bluesound Player such that the reconfigured Bluesound Player is to join the secure playback network without further user input via either the Bluesound Player or the device.</p> <p>For instance, a device installed with the BluOS Controller App is programmed such that, after receiving a third message that includes a Bluesound Player's network configuration information (e.g., a "SyncStatus" response), the device functions to transmit a fourth</p>

<p>1 provided by the 2 controller device to 3 the playback device 4 such that the 5 reconfigured playback 6 device is to join the 7 secure playback 8 network without 9 further user input via either the playback device or the controller device.</p>	<p>message that instructs the Bluesound Player to reconfigure its network configuration information according to network configuration parameters for a secure Wi-Fi network, such as an SSID and a WPA key, which causes the Bluesound Player to join the secure Wi-Fi network without further user input via either the Bluesound Player or the device. One example of such a fourth message takes the form of a “POST wificfg” command. <i>See also, e.g.,</i> Ex. 51.</p>
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10 163. Additionally and/or alternatively, Defendants have indirectly
11 infringed and continue to indirectly infringe one or more of the claims of the ‘698
12 Patent, in violation of 35 U.S.C. § 271(b), by actively inducing users of the
13 Bluesound System to directly infringe the one or more claims of the ‘698 Patent.
14 In particular, (a) Defendants had actual knowledge of the ‘698 Patent or were
15 willfully blind to its existence prior to (at least as early as November 1, 2018), and
16 no later than, the filing of this action (*see* ¶¶ 14-16 above), (b) Defendants
17 intentionally cause, urge, or encourage users of the Bluesound System to directly
18 infringe one or more claims of the ‘698 Patent by promoting, advertising, and
19 instructing customers and potential customers about the Bluesound System and uses
20 of the system, including infringing uses (*see* Ex. 24, 51), and (c) Defendants know
21 (or should know) that their actions will induce users of the Bluesound System to
22 directly infringe one or more claims the ‘698 Patent, and (d) users of the Bluesound
23 System directly infringe one or more claims of the ‘698 Patent. For instance, at a
24 minimum, Defendants have supplied and continue to supply the BluOS Controller
25 Apps to customers while knowing that installation and use of the BluOS Controller
26 Apps will infringe one or more claims of the ‘698 Patent, and that Defendants’
27 customers then directly infringe one or more claims of the ‘698 Patent by installing
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1 and using the BluOS Controller Apps in accordance with Defendants' product
2 literature. *See, e.g.*, Ex. 65.

3 164. Additionally and/or alternatively, Defendants have indirectly
4 infringed and continue to indirectly infringe one or more of the claims of the '698
5 Patent, in violation of 35 U.S.C. § 271(c), by offering to sell or selling within the
6 United States, and/or importing into the United States, components in connection
7 with the Bluesound System that contribute to the direct infringement of the '698
8 Patent by users of the Bluesound System. In particular, (a) Defendants had actual
9 knowledge of the '698 Patent or were willfully blind to its existence prior to (at
10 least as early as November 1, 2018), and no later than, the filing of this action (*see*
11 ¶¶ 14-16 above), (b) Defendants offer for sale, sell, and/or import, in connection
12 with the Bluesound System, one or more material components of the invention of
13 the '698 Patent that are not staple articles of commerce suitable for substantial
14 noninfringing use, (c) Defendants know (or should know) that such component(s)
15 were especially made or especially adapted for use in an infringement of the '698
16 Patent, and (d) users of devices that comprise such material component(s) directly
17 infringe one or more claims of the '698 Patent. For instance, at a minimum,
18 Defendants offer for sale, sell, and/or import BluOS Controller Apps for installation
19 on user devices that meet one or more claims of the '698 Patent. *See, e.g.*, Ex. 65.
20 These BluOS Controller Apps are material components of the user devices that
21 meet the one or more claims of the '698 Patent. Further, Defendants especially
22 made and/or adapted the BluOS Controller Apps for use in the user devices that
23 meet the one or more claims of the '698 Patent, and the BluOS Controller Apps are
24 not a staple article of commerce suitable for substantial noninfringing use.
25 Defendants' customers then directly infringe the one or more claims of the '698
26 Patent by installing and using the BluOS Controller Apps on the customers' user
27 devices.

28 165. Defendants' infringement of the '698 Patent is also willful because

1 Defendants (a) had actual knowledge of the ‘698 Patent or were willfully blind to
2 its existence prior to (at least as early as November 1, 2018), and no later than, the
3 filing of this action (*see* ¶¶ 14-16 above), (b) engaged in the aforementioned activity
4 despite an objectively high likelihood that Defendants’ actions constituted
5 infringement of the ‘698 Patent, and (c) this objectively-defined risk was either
6 known or so obvious that it should have been known to Defendants.

7 166. Additional allegations regarding Defendants’ pre-suit knowledge of
8 the ‘698 Patent and willful infringement will likely have evidentiary support after
9 a reasonable opportunity for discovery.

10 167. Sonos is in compliance with any applicable marking and/or notice
11 provisions of 35 U.S.C. § 287 with respect to the ‘698 Patent.

12 168. Sonos is entitled to recover from Defendants all damages that Sonos
13 has sustained as a result of Defendants’ infringement of the ‘698 Patent, including,
14 without limitation, a reasonable royalty and lost profits.

15 169. Defendants’ infringement of the ‘698 Patent was and continues to be
16 willful and deliberate, entitling Sonos to enhanced damages.

17 170. Defendants’ infringement of the ‘698 Patent is exceptional and entitles
18 Sonos to attorneys’ fees and costs incurred in prosecuting this action under 35
19 U.S.C. § 285.

20 171. Defendants’ infringement of the ‘698 Patent has caused irreparable
21 harm (including the loss of market share) to Sonos and will continue to do so unless
22 enjoined by this Court.

23 **COUNT V: INFRINGEMENT OF U.S. PATENT NO. 9,883,234**

24 172. Sonos incorporates by reference and re-alleges paragraphs 25-33 and
25 87-98 of this Complaint as if fully set forth herein.

26 173. Defendants and/or users of the Bluesound System have directly
27 infringed (either literally or under the doctrine of equivalents) and continue to
28 directly infringe one or more of the claims of the ‘234 Patent, in violation of 35

1 U.S.C. § 271(a), by making, using, offering for sale, and/or selling the Bluesound
 2 System within the United States and/or importing the Bluesound System into the
 3 United States without authority or license.

4 174. As just one non-limiting example, set forth below is an exemplary
 5 infringement claim chart for claim 1 of the '234 Patent in connection with the
 6 Bluesound System. This claim chart is based on publicly available information.
 7 Sonos reserves the right to modify this claim chart, including, for example, on the
 8 basis of information about the Bluesound System that it obtains during discovery.

Claim: 1	Bluesound
1. A playback device comprising:	At least each of Defendants' PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i, PULSE, PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i, PULSE SUB, NODE, NODE 2, NODE 2i, POWERNODE, POWERNODE 2, POWERNODE 2i, VAULT, VAULT 2, VAULT 2i, and any other "BluOS Enabled" or "BluOS Ready" audio player (e.g., the NPM-1) comprises a "playback device" as recited in claim 1. <i>See, e.g., Ex. 24, 43-44, 61.</i>
a network interface;	Each of the foregoing Bluesound Players includes a network interface, such as a WiFi interface and/or an Ethernet interface. <i>See, e.g., Ex. 43, 61.</i>
one or more processors;	Each of the foregoing Bluesound Players includes one or more processors. <i>See, e.g., Ex. 61.</i>
tangible computer-readable media having instructions encoded therein, wherein the instructions, when executed by the one or more processors, cause the playback	Each of the foregoing Bluesound Players includes tangible computer readable media encoded with program instructions that, when executed by the Bluesound Player's one or more processors, cause that Bluesound Player to perform the functions identified below. <i>See, e.g., Ex. 61.</i>

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<p>device to perform a method comprising:</p>	
<p>receiving, via the network interface from one or more first cloud servers, an instruction to (1) add a particular multimedia content to a local playback queue on the playback device and (2) play back the multimedia content from the local playback queue beginning at a particular play position within the multimedia content corresponding to when a set of inputs for transferring playback of the multimedia content from a control device to a zone group was detected at a control interface of the control device, the zone group comprising a first zone and a second zone of a media playback system, the first zone comprising the playback device and the second zone comprising at least one additional playback device, wherein the control</p>	<p>Each of the foregoing Bluesound Players comprises program instructions that, when executed by the Bluesound Player’s one or more processors, cause that Bluesound Player to receive, via its network interface from one or more first cloud servers, an instruction to (1) add a particular multimedia content to a local playback queue on the Bluesound Player and (2) play back the multimedia content from the local playback queue beginning at a particular play position within the multimedia content corresponding to when a set of inputs for transferring playback of the multimedia content from a control device to a zone group was detected at a control interface of the control device, the zone group comprising a first zone and a second zone of a Bluesound system, the first zone comprising the Bluesound Player and the second zone comprising at least one additional Bluesound Player, where the control device is distinct from the Bluesound Player, and where receiving the instruction comprises receiving a resource locator indicating a particular source of the multimedia content at one or more second cloud servers of a streaming content service.</p> <p>For instance, each of the foregoing Bluesound Players is programmed with the capability to enter into a group with one or more other Bluesound Players. <i>See, e.g., Ex. 61, 67.</i></p> <p>In such a group, the Bluesound Player that receives the direction to enter into the synchrony group may be referred to as the “master” or “primary” of the group and every other Bluesound Player in the group may be referred to as a “slave.” <i>See, e.g., Ex. 68.</i></p> <p>Further, each of the foregoing Bluesound Players is programmed with the capability to assume playback responsibility for audio content from a streaming content service that was previously being played back by a control device.</p>

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<p>device is distinct from the playback device, and wherein receiving the instruction comprises receiving a resource locator indicating a particular source of the multimedia content at one or more second cloud servers of a streaming content service;</p>	<p>For example, each of the foregoing Bluesound Players is programmed with “Spotify Connect” capability. <i>See, e.g., Ex. 54, 72.</i> With “Spotify Connect,” playback of audio content available from Spotify can initially begin at a control device installed with the Spotify app, such as a user’s smartphone, tablet, or computer. Then, during the control device’s playback of the audio content, the control device is capable of detecting a set of user inputs at a Spotify control interface that requests the playback of the audio content to be transferred from the control device to a group of Bluesound Players. In response to detecting such user input, the control device communicates the user’s request to a first Spotify cloud server, which in turn transmits an instruction to one of the Bluesound Players in the group to (1) add the audio content to the Bluesound Player’s local playback queue and (2) play back the audio content beginning at a particular play position within the audio content that corresponds to the time when the control device detected the user’s request to transfer playback from the control device to the group of Bluesound Players, where such an instruction includes a uniform resource identifier (URI) indicating a source of the audio content at a second Spotify cloud server.</p> <p>The following screenshots illustrate an example set of inputs detected at a Spotify control interface of a control device that facilitates transferring playback of audio content from the control device to a group of Bluesound Players:</p>
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See also, e.g., Ex. 73.

Thus, in accordance with its “Spotify Connect” capability, each of the foregoing Bluesound Players is programmed with the capability to receive an instruction from a first Spotify cloud server to (1) add particular audio content available from Spotify to a local playback queue on the Bluesound Player and (2) play back the particular audio content from the local playback queue beginning at a particular play position within the audio content corresponding to when a set of inputs are detected at a Spotify control interface of a control device for transferring playback of the audio content from the control device installed with the Spotify app to a group of Bluesound Player that includes the Bluesound Player, where the instruction comprises a URI indicating a particular source of the audio content at a second Spotify cloud server.

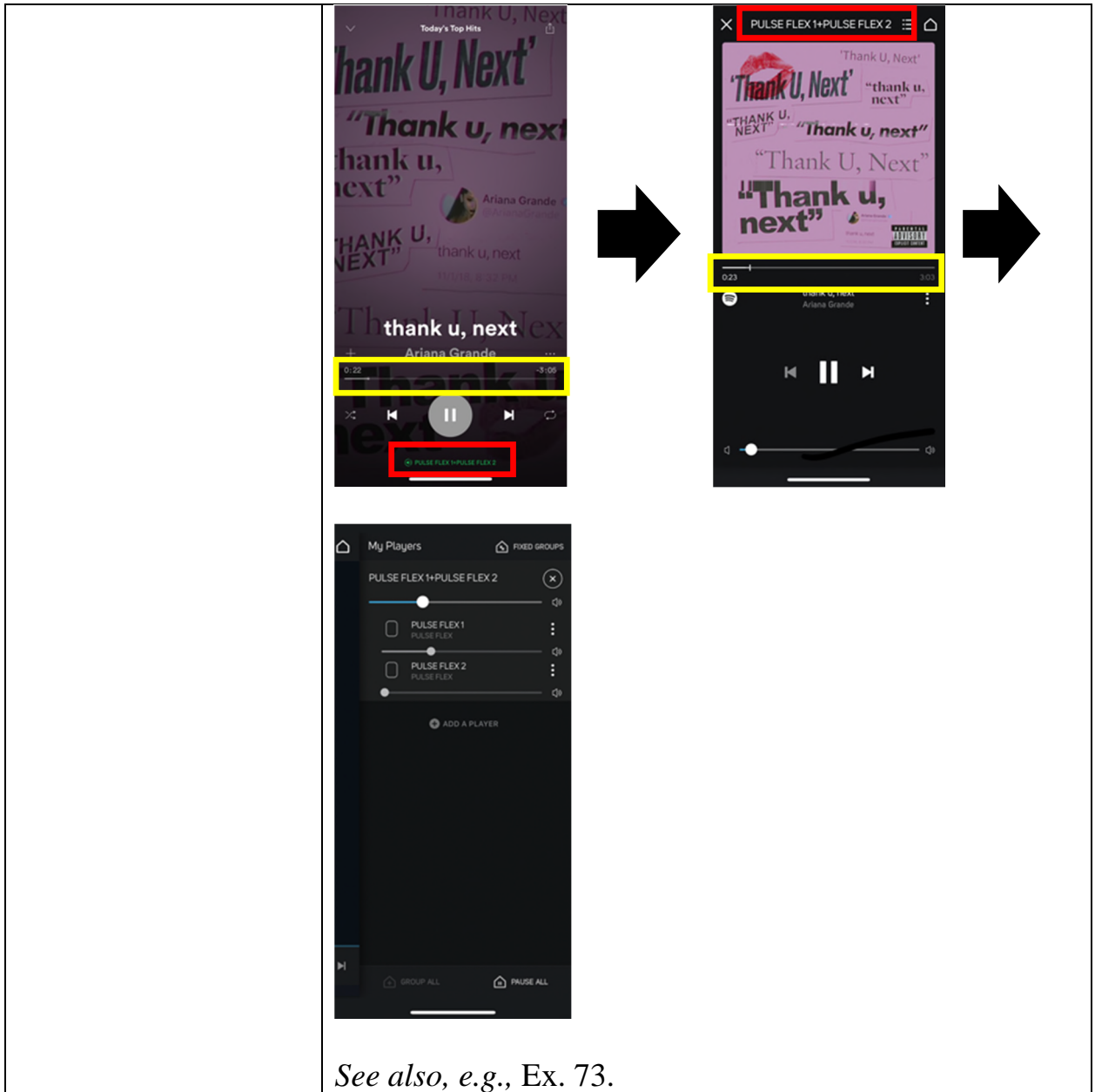
in response to the received instruction from the one or more first cloud servers:

adding the particular multimedia content to a local playback

Each of the foregoing Bluesound Players comprises program instructions that, when executed by the Bluesound Player’s one or more processors, cause the given Bluesound Player to, in response to the received instruction from the one or more first cloud servers, add the particular multimedia content to a local playback queue on the Bluesound Player and play back the particular multimedia content beginning at the particular

<p>1 queue on the playback 2 device; and</p> <p>3 playing back the 4 particular multimedia 5 content beginning at 6 the particular play 7 position within the 8 multimedia content in 9 synchrony with the at 10 least one additional 11 playback device, 12 wherein playing back 13 the multimedia 14 content comprises 15 obtaining the 16 multimedia content 17 from the particular 18 source of the 19 multimedia content at 20 the one or more 21 second cloud servers 22 of the streaming 23 content service using 24 the resource locator, 25 wherein the particular 26 source is outside of a 27 local area network 28 that communicatively couples the control device and the playback device.</p>	<p>play position within the multimedia content in synchrony with at least one additional Bluesound Player in the zone group, where playing back the multimedia content comprises obtaining the multimedia content from the particular source of the multimedia content at the one or more second cloud servers of the streaming content service using the resource locator, and where the particular source is outside of a local area network that communicatively couples the control device and the Bluesound Player.</p> <p>For instance, as discussed above, each of the foregoing Bluesound Players is programmed with the capability to receive an instruction from a first Spotify cloud server to (1) add particular audio content available from Spotify to the Bluesound Player's local playback queue and (2) play back the particular audio content from the local playback queue beginning at a particular play position within the audio content, which corresponds to when the control device detected a set of user inputs at a Spotify control interface that request the playback of the audio content to be transferred from the control device to a group of Bluesound Players that includes the Bluesound Player. In turn, each of the foregoing Bluesound Players is programmed such that, in response to receiving such an instruction, the Bluesound Player adds the particular audio content to a local playback queue of the Bluesound Player, uses the URI included in the instruction to obtain the particular audio content from a second Spotify cloud server, and then plays back the particular audio content beginning at the particular play position within the audio content in synchrony with the one or more other Bluesound Players in the group.</p> <p>This functionality is illustrated by the following screenshots:</p>
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21 175. Additionally and/or alternatively, Defendants have indirectly
22 infringed and continue to indirectly infringe one or more of the claims of the '234
23 Patent, in violation of 35 U.S.C. § 271(b), by actively inducing users of the
24 Bluesound System to directly infringe the one or more claims of the '234 Patent.
25 In particular, (a) Defendants had actual knowledge of the '234 Patent or were
26 willfully blind to its existence prior to (at least as early as November 1, 2018), and
27 no later than, the filing of this action (*see* ¶¶ 14-16 above), (b) Defendants
28 intentionally cause, urge, or encourage users of the Bluesound System to directly

1 infringe one or more claims of the '234 Patent by promoting, advertising, and
2 instructing customers and potential customers about the Bluesound System and uses
3 of the system, including infringing uses (*see* Ex. 54), and (c) Defendants know (or
4 should know) that their actions will induce users of the Bluesound System to
5 directly infringe one or more claims the '234 Patent, and (d) users of the Bluesound
6 System directly infringe one or more claims of the '234 Patent. For instance, at a
7 minimum, Defendants have supplied and continue to supply Bluesound Players to
8 customers while knowing that use of these products will infringe one or more claims
9 of the '234 Patent, and that Defendants' customers then directly infringe one or
10 more claims of the '234 Patent by using these Bluesound Players in accordance
11 with Defendants' product literature.

12 176. Additionally and/or alternatively, Defendants have indirectly
13 infringed and continue to indirectly infringe one or more of the claims of the '234
14 Patent, in violation of 35 U.S.C. § 271(c), by offering to sell or selling within the
15 United States, and/or importing into the United States, components in connection
16 with the Bluesound System that contribute to the direct infringement of the '234
17 Patent by users of the Bluesound System. In particular, (a) Defendants had actual
18 knowledge of the '234 Patent or were willfully blind to its existence prior to (at
19 least as early as November 1, 2018), and no later than, the filing of this action (*see*
20 ¶¶ 14-16 above), (b) Defendants offer for sale, sell, and/or import, in connection
21 with the Bluesound System, one or more material components of the invention of
22 the '234 Patent that are not staple articles of commerce suitable for substantial
23 noninfringing use, (c) Defendants know (or should know) that such component(s)
24 were especially made or especially adapted for use in an infringement of the '234
25 Patent, and (d) users of devices that comprise such material component(s) directly
26 infringe one or more claims of the '234 Patent. For instance, at a minimum,
27 Defendants offer for sale, sell, and/or import software updates for Bluesound
28 Players that meet one or more claims of the '234 Patent. *See, e.g.*, Ex. 65. These

1 software updates are material components of the Bluesound Players that meet the
2 one or more claims of the ‘234 Patent. Further, Defendants especially made and/or
3 adapted these software updates for use in the Bluesound Players that meet the one
4 or more claims of the ‘234 Patent, and these software updates are not staple articles
5 of commerce suitable for substantial noninfringing use. Defendants’ customers
6 then directly infringe the one or more claims of the ‘234 Patent by installing and
7 using software updates on the Bluesound Players.

8 177. Defendants’ infringement of the ‘234 Patent is also willful because
9 Defendants (a) had actual knowledge of the ‘234 Patent or were willfully blind to
10 its existence prior to (at least as early as November 1, 2018), and no later than, the
11 filing of this action (*see* ¶¶ 14-16 above), (b) engaged in the aforementioned activity
12 despite an objectively high likelihood that Defendants’ actions constituted
13 infringement of the ‘234 Patent, and (c) this objectively-defined risk was either
14 known or so obvious that it should have been known to Defendants.

15 178. Additional allegations regarding Defendants’ pre-suit knowledge of
16 the ‘234 Patent and willful infringement will likely have evidentiary support after
17 a reasonable opportunity for discovery.

18 179. Sonos is in compliance with any applicable marking and/or notice
19 provisions of 35 U.S.C. § 287 with respect to the ‘234 Patent.

20 180. Sonos is entitled to recover from Defendants all damages that Sonos
21 has sustained as a result of Defendants’ infringement of the ‘234 Patent, including,
22 without limitation, a reasonable royalty and lost profits.

23 181. Defendants’ infringement of the ‘234 Patent was and continues to be
24 willful and deliberate, entitling Sonos to enhanced damages.

25 182. Defendants’ infringement of the ‘234 Patent is exceptional and entitles
26 Sonos to attorneys’ fees and costs incurred in prosecuting this action under 35
27 U.S.C. § 285.

28 183. Defendants’ infringement of the ‘234 Patent has caused irreparable

1 harm (including the loss of market share) to Sonos and will continue to do so unless
 2 enjoined by this Court.

3 **COUNT VI: INFRINGEMENT OF U.S. PATENT NO. 8,938,312**

4 184. Sonos incorporates by reference and re-alleges paragraphs 25-33 and
 5 99-111 of this Complaint as if fully set forth herein.

6 185. Defendants and/or users of the Bluesound System have directly
 7 infringed (either literally or under the doctrine of equivalents) and continue to
 8 directly infringe one or more of the claims of the ‘312 Patent, in violation of 35
 9 U.S.C. § 271(a), by making, using, offering for sale, and/or selling the Bluesound
 10 System (e.g., PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i,
 11 PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i, NODE 2,
 12 NODE 2i, POWERNODE 2, POWERNODE 2i, VAULT 2, and VAULT 2i) within
 13 the United States and/or importing the Bluesound System into the United States
 14 without authority or license.

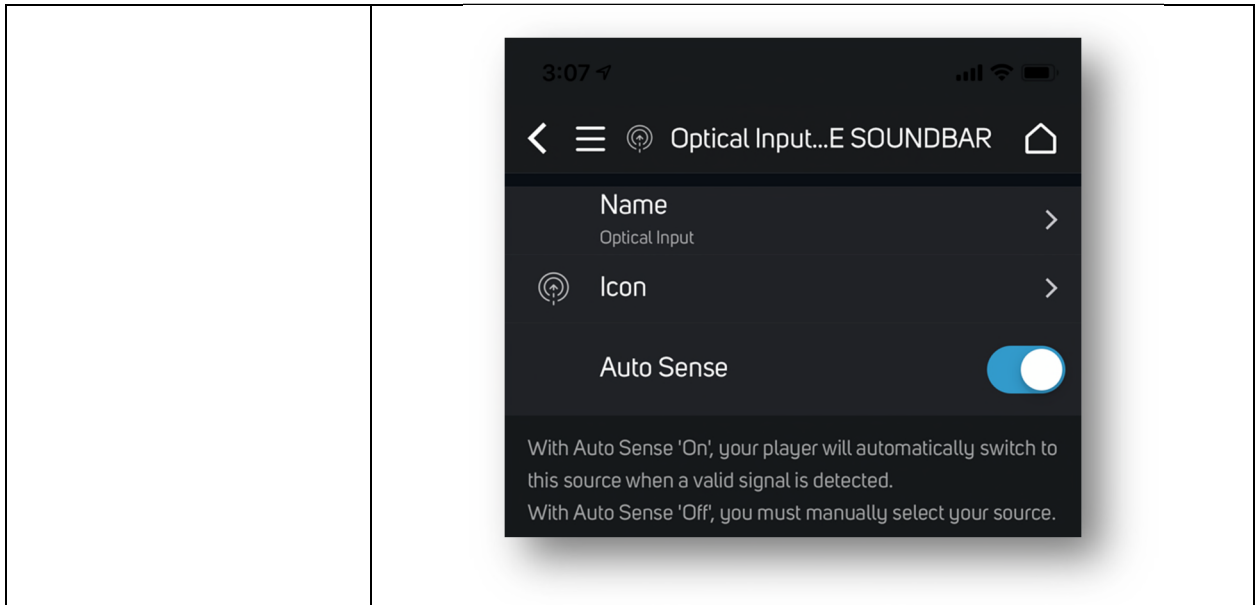
15 186. As just one non-limiting example, set forth below is an exemplary
 16 infringement claim chart for claim 1 of the ‘312 Patent in connection with the
 17 Bluesound System. This claim chart is based on publicly available information.
 18 Sonos reserves the right to modify this claim chart, including, for example, on the
 19 basis of information about the Bluesound System that it obtains during discovery.

Claim: 1	Bluesound
1. A playback device comprising:	At least each of Defendants’ PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i, PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i, NODE 2, NODE 2i, POWERNODE 2, POWERNODE 2i, VAULT 2, and VAULT 2i players comprises a “playback device” as recited in claim 1. <i>See, e.g., Ex. 24, 43-44, 61.</i>
a line-in connector for receiving a first audio signal;	Each of the foregoing Bluesound Players includes a line-in connector for receiving a first audio signal, such as an optical and/or HDMI line-in connector. <i>See, e.g., Ex. 43-44</i>

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<p>a network interface; and</p>	<p>Each of the foregoing Bluesound Players includes a network interface, such as a WiFi interface and/or an Ethernet interface. <i>See, e.g.</i>, Ex. 43, 61, 66.</p>
<p>a processor;</p>	<p>Each of the foregoing Bluesound Players includes one or more processors. <i>See, e.g.</i>, Ex. 43, 61.</p>
<p>a non-transitory computer readable storage medium having stored therein instructions executable by the processor to:</p>	<p>Each of the foregoing Bluesound Players includes a non-transitory computer readable storage medium having stored therein executable instructions that enable the Bluesound Player to perform the functions identified below. <i>See, e.g.</i>, Ex. 43, 61.</p>
<p>determine whether the first audio signal is present at the line-in connector;</p>	<p>Each of the foregoing Bluesound Players comprises instructions that, when executed by the Bluesound Player’s processor, cause that Bluesound Player to determine whether the first audio signal is present at the line-in connector.</p> <p>For instance, each of the foregoing Bluesound Players is programmed with the capability to determine whether an audio signal is present at the Bluesound Player’s optical or HDMI line-in connector in accordance with the Bluesound Player’s “Auto Sense” functionality. <i>See, e.g.</i>, Ex. 58. Bluesound describes this “Auto Sense” functionality as follows:</p>

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in response to determining that the first audio signal is present at the line-in connector, (i) cease playback of a second audio signal being played by the playback device, wherein the second audio signal is not present at the line-in connector, and (ii) cause the playback device to play the first audio signal;

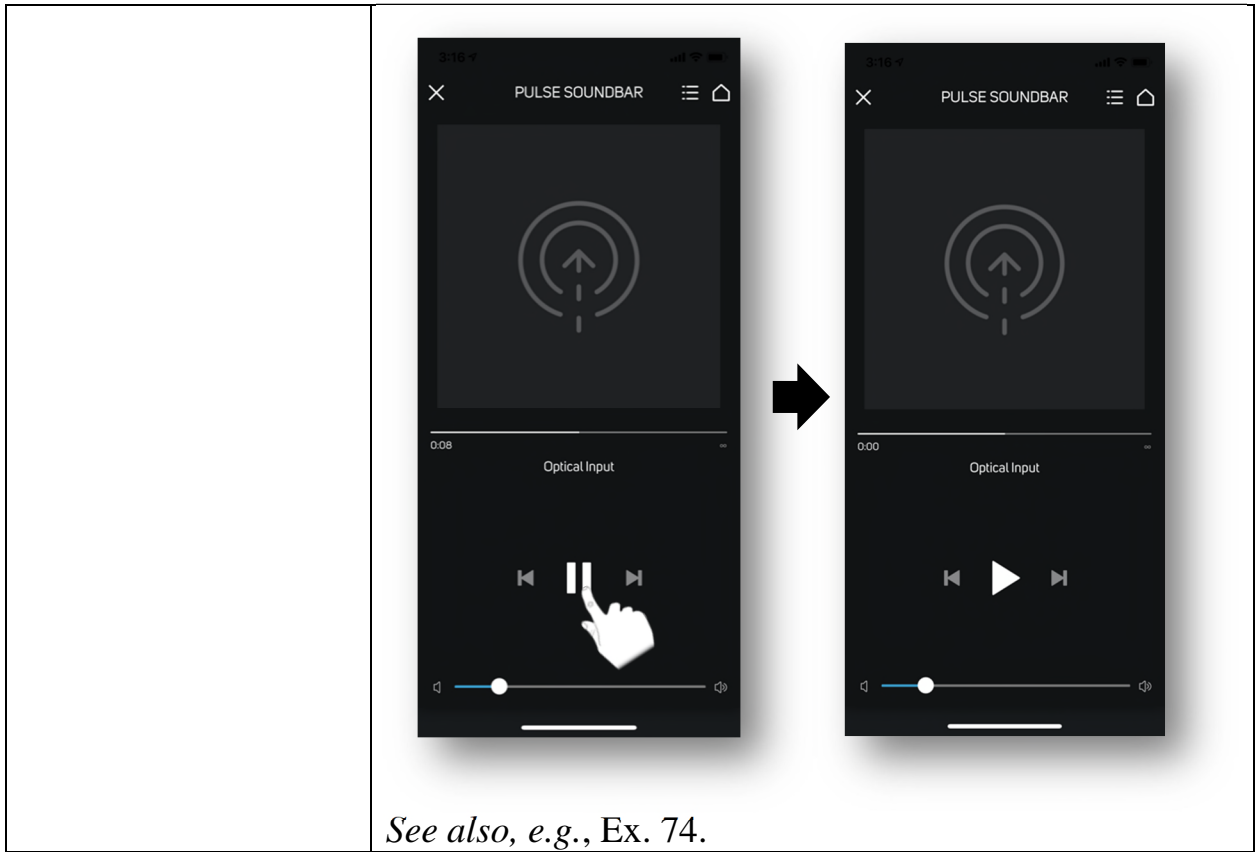
Each of the foregoing Bluesound Players comprises instructions that, when executed by the Bluesound Player’s processor, cause that Bluesound Player to, in response to determining that the first audio signal is present at the line-in connector, (i) cease playback of a second audio signal being played by the Bluesound Player, where the second audio signal is not present at the line-in connector, and (ii) cause the Bluesound Player to play the first audio signal.

For instance, each of the foregoing Bluesound Players is programmed such that, in response to determining that an audio signal (e.g., a TV audio signal) is present at the Bluesound Player’s optical or HDMI line-in connector, then in accordance with the Bluesound Player’s “Auto Sense” functionality, the Bluesound Player functions to (i) cease playback of an audio signal being played by the Bluesound Player that is not present at the Bluesound Player’s optical or HDMI line-in connector (e.g., audio content received from an Internet-based music service) and (ii) cause the Bluesound Player to play the audio signal that is present at the Bluesound Player’s optical or HDMI line-in connector. *See, e.g., Ex. 58* (“BluOS Players can automatically switch to Optical Input if signal is detected from a TV, CD Player or other digital audio input device. Turning on your TV or playing a CD

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	will interrupt any existing audio and play from this source.”).
receive, via the network interface, a first instruction to stop the playback device from playing the first audio signal while the first audio signal is still present at the line-in connector;	<p>Each of the foregoing Bluesound Players comprises instructions that, when executed by the Bluesound Player’s processor, cause that Bluesound Player to receive, via the Bluesound Player’s network interface, a first instruction to stop the Bluesound Player from playing the first audio signal while the first audio signal is still present at the line-in connector.</p> <p>For instance, each of the foregoing Bluesound Players is programmed with the capability to receive, via the Bluesound Player’s network interface, an instruction to stop the Bluesound Player from playing an audio signal (e.g., a TV audio signal) while that audio signal is present at the Bluesound Player’s optical or HDMI line-in connector. Such an instruction may take the form of an instruction sent by a device installed with the BluOS Controller App or a cloud server that is communicatively coupled to the Bluesound Player after a user makes a request to (i) “pause” playback of the audio signal that is present at the Bluesound Player’s optical or HDMI line-in connector (an example of which is illustrated in the below screenshots) or (ii) play audio content from a different source (e.g., audio content from an Internet-based music service).</p>

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See also, e.g., Ex. 74.

determine that the first audio signal is no longer present at the line-in connector; and

in response to determining that the first audio signal is no longer present at the line-in connector, arm the playback device such that a subsequent

Each of the foregoing Bluesound Players comprises instructions that, when executed by the Bluesound Player’s processor, cause that Bluesound Player to determine that the first audio signal is no longer present at the line-in connector.

For instance, in accordance with “Auto Sense” functionality discussed above, each of the foregoing Bluesound Players is programmed with the capability to determine whether an audio signal is present at the Bluesound Player’s optical or HDMI line-in connector, which includes the capability to determine that an audio signal that was previously present at the line-in connector is no longer present. *See, e.g., Ex. 58.*

Each of the foregoing Bluesound Players comprise instructions that, when executed by the Bluesound Player’s processor, cause that Bluesound Player to, in response to determining that the first audio signal is no longer present at the line-in connector, arm the Bluesound Player such that a subsequent presence of the

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<p>presence of the first audio signal at the line-in connector causes the playback device to play the first audio signal.</p>	<p>first audio signal at the line-in connector causes the Bluesound Player to play the first audio signal.</p> <p>For instance, each of the foregoing Bluesound Players is programmed such that, in response to determining that an audio signal (e.g., a TV audio signal) is no longer present at the Bluesound Player’s optical or HDMI line-in connector, then in accordance with the Bluesound Player’s “Auto Sense” functionality, the Bluesound Player arms itself such that a subsequent presence of the audio signal (e.g., the TV audio signal) at the Bluesound Player’s optical or HDMI line-in connector causes the Bluesound Player to automatically begin playing back the audio signal at the optical or HDMI line-in connector (which may involve ceasing playback of audio content from another source such as an Internet-based music service). <i>See, e.g.,</i> Ex. 58 (“BluOS Players can automatically switch to Optical Input if signal is detected from a TV, CD Player or other digital audio input device. Turning on your TV or playing a CD will interrupt any existing audio and play from this source.”).</p>
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187. Additionally and/or alternatively, Defendants have indirectly infringed and continue to indirectly infringe one or more of the claims of the ‘312 Patent, in violation of 35 U.S.C. § 271(b), by actively inducing users of the Bluesound System to directly infringe the one or more claims of the ‘312 Patent. In particular, (a) Defendants had actual knowledge of the ‘312 Patent or were willfully blind to its existence prior to (at least as early as November 1, 2018), and no later than, the filing of this action (*see* ¶¶ 14-16 above), (b) Defendants intentionally cause, urge, or encourage users of the Bluesound System to directly infringe one or more claims of the ‘312 Patent by promoting, advertising, and instructing customers and potential customers about the Bluesound System and uses of the system, including infringing uses (*see* Ex. 58), and (c) Defendants know (or should know) that their actions will induce users of the Bluesound System to

1 directly infringe one or more claims the '312 Patent, and (d) users of the Bluesound
2 System directly infringe one or more claims of the '312 Patent. For instance, at a
3 minimum, Defendants have supplied and continue to supply Bluesound Players
4 (e.g., PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i, PULSE 2,
5 PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i, NODE 2, NODE 2i,
6 POWERNODE 2, POWERNODE 2i, VAULT 2, and VAULT 2i) to customers
7 while knowing that use of these products will infringe one or more claims of the
8 '312 Patent, and that Defendants' customers then directly infringe one or more
9 claims of the '312 Patent by using these Bluesound Players in accordance with
10 Defendants' product literature.

11 188. Additionally and/or alternatively, Defendants have indirectly
12 infringed and continue to indirectly infringe one or more of the claims of the '312
13 Patent, in violation of 35 U.S.C. § 271(c), by offering to sell or selling within the
14 United States, and/or importing into the United States, components in connection
15 with the Bluesound System that contribute to the direct infringement of the '312
16 Patent by users of the Bluesound System. In particular, (a) Defendants had actual
17 knowledge of the '312 Patent or were willfully blind to its existence prior to (at
18 least as early as November 1, 2018), and no later than, the filing of this action (*see*
19 ¶¶ 14-16 above), (b) Defendants offer for sale, sell, and/or import, in connection
20 with the Bluesound System, one or more material components of the invention of
21 the '312 Patent that are not staple articles of commerce suitable for substantial
22 noninfringing use, (c) Defendants know (or should know) that such component(s)
23 were especially made or especially adapted for use in an infringement of the '312
24 Patent, and (d) users of devices that comprise such material component(s) directly
25 infringe one or more claims of the '234 Patent. For instance, at a minimum,
26 Defendants offer for sale, sell, and/or import software updates for Bluesound
27 Players (e.g., PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i,
28 PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i, NODE 2,

1 NODE 2i, POWERNODE 2, POWERNODE 2i, VAULT 2, and VAULT 2i) that
2 meet one or more claims of the '312 Patent. *See, e.g.*, Ex. 65. These software
3 updates are material components of the Bluesound Players that meet the one or
4 more claims of the '312 Patent. Further, Defendants especially made and/or
5 adapted these software updates for use in the Bluesound Players that meet the one
6 or more claims of the '312 Patent, and these software updates are not staple articles
7 of commerce suitable for substantial noninfringing use. Defendants' customers
8 then directly infringe the one or more claims of the '312 Patent by installing and
9 using software updates on the Bluesound Players.

10 189. Defendants' infringement of the '312 Patent is also willful because
11 Defendants (a) had actual knowledge of the '312 Patent or were willfully blind to
12 its existence prior to (at least as early as November 1, 2018), and no later than, the
13 filing of this action (*see* ¶¶ 14-16 above), (b) engaged in the aforementioned activity
14 despite an objectively high likelihood that Defendants' actions constituted
15 infringement of the '312 Patent, and (c) this objectively-defined risk was either
16 known or so obvious that it should have been known to Defendants.

17 190. Additional allegations regarding Defendants' pre-suit knowledge of
18 the '312 Patent and willful infringement will likely have evidentiary support after
19 a reasonable opportunity for discovery.

20 191. Sonos is in compliance with any applicable marking and/or notice
21 provisions of 35 U.S.C. § 287 with respect to the '312 Patent.

22 192. Sonos is entitled to recover from Defendants all damages that Sonos
23 has sustained as a result of Defendants' infringement of the '312 Patent, including,
24 without limitation, a reasonable royalty and lost profits.

25 193. Defendants' infringement of the '312 Patent was and continues to be
26 willful and deliberate, entitling Sonos to enhanced damages.

27 194. Defendants' infringement of the '312 Patent is exceptional and entitles
28 Sonos to attorneys' fees and costs incurred in prosecuting this action under 35

1 U.S.C. § 285.

2 195. Defendants’ infringement of the ‘312 Patent has caused irreparable
 3 harm (including the loss of market share) to Sonos and will continue to do so unless
 4 enjoined by this Court.

5 **COUNT VII: INFRINGEMENT OF U.S. PATENT NO. 9,252,721**

6 196. Sonos incorporates by reference and re-alleges paragraphs 25-33 and
 7 112-123 of this Complaint as if fully set forth herein.

8 197. Defendants and/or users of the Bluesound System have directly
 9 infringed (either literally or under the doctrine of equivalents) and continue to
 10 directly infringe one or more of the claims of the ‘721 Patent, in violation of 35
 11 U.S.C. § 271(a), by making, using, offering for sale, and/or selling the Bluesound
 12 System (e.g., PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i,
 13 PULSE, PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i,
 14 PULSE SUB, POWERNODE, POWERNODE 2, and POWERNODE 2i) within
 15 the United States and/or importing the Bluesound System into the United States
 16 without authority or license.

17 198. As just one non-limiting example, set forth below is an exemplary
 18 infringement claim chart for claim 1 of the ‘721 Patent in connection with the
 19 Bluesound System. This claim chart is based on publicly available information.
 20 Sonos reserves the right to modify this claim chart, including, for example, on the
 21 basis of information about the Bluesound System that it obtains during discovery.

Claim: 1	Bluesound
1. A playback device comprising:	At least each of Defendants’ PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i, PULSE, PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i, PULSE SUB, POWERNODE, POWERNODE 2, and POWERNODE 2i players comprises a “playback device” as recited in claim 1. <i>See, e.g., Ex. 24, 43-44, 61.</i>

1 2	one or more processors;	Each of the foregoing Bluesound Players includes one or more processors. <i>See, e.g.</i> , Ex. 43, 61.
3 4	an amplifier;	Each of the foregoing Bluesound Players includes an amplifier. <i>See, e.g.</i> , Ex. 43, 61, 66.
5 6	a network interface; and	Each of the foregoing Bluesound Players includes a network interface, such as a WiFi interface and/or an Ethernet interface. <i>See, e.g.</i> , Ex. 43, 61, 66.
7 8 9 10 11 12	tangible, non-transitory, computer-readable memory comprising instructions that, when executed by the one or more processors, cause the playback device to:	Each of the foregoing Bluesound Players includes tangible, non-transitory, computer readable memory having instructions that enable the Bluesound Player to perform the functions identified below. <i>See, e.g.</i> , Ex. 61.
13 14 15 16 17 18 19 20 21 22 23 24	operate in a first power mode in which the amplifier consumes a first amount of power;	Each of the foregoing Bluesound Players comprises instructions that, when executed by the Bluesound Player's one or more processors, cause that Bluesound Player to operate in a first power mode in which the Bluesound Player's amplifier consumes a first amount of power. For instance, each of the foregoing Bluesound Players is programmed with the capability to operate in a "Ready Mode" in which the Bluesound Player's amplifier consumes a higher amount of power than when the Bluesound Player is operating outside of the "Ready Mode." The Bluesound Players operates in such a "Ready Mode" at various times, including but not limited to when the Bluesound Player is playing back audio. <i>See, e.g.</i> , Ex. 60 (describing restoring a Bluesound Player back to "Ready Mode.>").
25 26 27 28	while operating in the first power mode, receive one or more packets addressed to	Each of the foregoing Bluesound Players comprises instructions that, when executed by the Bluesound Player's one or more processors, cause that Bluesound Player to, while operating in the first power mode,

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<p>the playback device, and determine that a defined time has passed since receiving a specified type of data packet; and</p>	<p>receive one or more packets addressed to the Bluesound Player and determine that a defined time has passed since receiving a specified type of data packet.</p> <p>For instance, each of the foregoing Bluesound Players is programmed such that, while operating in a “Ready Mode,” the Bluesound Player functions to (i) receive one or more packets addressed to the Bluesound Player (e.g., packets indicative of another Bluesound Player’s presence on the network and/or packets sent from a device installed with the BluOS Controller App) and (ii) determine that a defined time (e.g., 15 minutes) has passed since receiving a specified type of data packet (e.g., an audio data packet). <i>See, e.g.,</i> Ex. 60 (“While it idles and waits to receive a command, a Bluesound Player will consume very little power, like other network components such as a switch or router. All Players also continue to stay connected with other Players in your house, even when you are not listening to music. Our Gen2 Players will automatically enter Power Save mode (less than 6.0W of power) after 15 minutes of idle. In this mode the Player will conserve energy but is responsive to App commands and available on the network.”); Ex. 75 (“After 15minutes of idle the Bluesound POWERNODE and all PULSE Models Gen 2 or higher (mid 2015) will go into a powersave mode and shut down the amplifier. When pressing play, depending on the model or your player, sometimes the amplifier can take 2-8 seconds to wake and begin to play music again.”).</p>
<p>after determining that the defined time has passed since receiving the specified type of data packet, transition from operating in the first power mode to operate in a second power mode in which the amplifier</p>	<p>Each of the foregoing Bluesound Players comprises instructions that, when executed by the Bluesound Player’s one or more processors, cause that Bluesound Player to, after determining that the defined time has passed since receiving the specified type of data packet, transition from operating in the first power mode to operate in a second power mode in which the Bluesound Player’s amplifier consumes a second amount of power, where the first amount of power is greater than the second amount of power.</p>

<p>1 consumes a second 2 amount of power, 3 wherein the first 4 amount of power is 5 greater than the 6 second amount of 7 power.</p>	<p>For instance, each of the foregoing Bluesound Players is programmed such that, after determining that a defined time (e.g., 15 minutes) has passed since receiving a specified type of data packet (e.g., an audio data packet), the Bluesound Player functions to transition from operating in a “Ready Mode” to operating in an “Amplifier Standby” (or “idle”) mode in which the Bluesound Player’s amplifier consumes a lower amount of power than while operating in the “Ready Mode.” See, e.g., Ex. 60 (“While it idles and waits to receive a command, a Bluesound Player will consume very little power, like other network components such as a switch or router. All Players also continue to stay connected with other Players in your house, even when you are not listening to music. Our Gen2 Players will automatically enter Power Save mode (less than 6.0W of power) after 15 minutes of idle. In this mode the Player will conserve energy but is responsive to App commands and available on the network.”); Ex. 75 (“After 15 minutes of idle the Bluesound POWERNODE and all PULSE Models Gen 2 or higher (mid 2015) will go into a powersave mode and shut down the amplifier. When pressing play, depending on the model or your player, sometimes the amplifier can take 2-8 seconds to wake and begin to play music again.”).</p>
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19 199. Additionally and/or alternatively, Defendants have indirectly
20 infringed and continue to indirectly infringe one or more of the claims of the ‘721
21 Patent, in violation of 35 U.S.C. § 271(b), by actively inducing users of the
22 Bluesound System to directly infringe the one or more claims of the ‘721 Patent.
23 In particular, (a) Defendants had actual knowledge of the ‘721 Patent or were
24 willfully blind to its existence prior to (at least as early as November 1, 2018), and
25 no later than, the filing of this action (*see* ¶¶ 14-16 above), (b) Defendants
26 intentionally cause, urge, or encourage users of the Bluesound System to directly
27 infringe one or more claims of the ‘721 Patent by promoting, advertising, and
28 instructing customers and potential customers about the Bluesound System and uses

1 of the system, including infringing uses (*see* Ex. 60, 75), and (c) Defendants know
2 (or should know) that their actions will induce users of the Bluesound System to
3 directly infringe one or more claims the '721 Patent, and (d) users of the Bluesound
4 System directly infringe one or more claims of the '721 Patent. For instance, at a
5 minimum, Defendants have supplied and continue to supply Bluesound Players
6 (e.g., PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i, PULSE,
7 PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i, PULSE
8 SUB, POWERNODE, POWERNODE 2, and POWERNODE 2i) to customers
9 while knowing that use of these products will infringe one or more claims of the
10 '721 Patent, and that Defendants' customers then directly infringe one or more
11 claims of the '721 Patent by using these Bluesound Players in accordance with
12 Defendants' product literature.

13 200. Additionally and/or alternatively, Defendants have indirectly
14 infringed and continue to indirectly infringe one or more of the claims of the '721
15 Patent, in violation of 35 U.S.C. § 271(c), by offering to sell or selling within the
16 United States, and/or importing into the United States, components in connection
17 with the Bluesound System that contribute to the direct infringement of the '721
18 Patent by users of the Bluesound System. In particular, (a) Defendants had actual
19 knowledge of the '721 Patent or were willfully blind to its existence prior to (at
20 least as early as November 1, 2018), and no later than, the filing of this action (*see*
21 ¶¶ 14-16 above), (b) Defendants offer for sale, sell, and/or import, in connection
22 with the Bluesound System, one or more material components of the invention of
23 the '721 Patent that are not staple articles of commerce suitable for substantial
24 noninfringing use, (c) Defendants know (or should know) that such component(s)
25 were especially made or especially adapted for use in an infringement of the '721
26 Patent, and (d) users of devices that comprise such material component(s) directly
27 infringe one or more claims of the '721 Patent. For instance, at a minimum,
28 Defendants offer for sale, sell, and/or import software updates for Bluesound

1 Players (e.g., PULSE FLEX, PULSE FLEX 2i, PULSE MINI, PULSE MINI 2i,
2 PULSE, PULSE 2, PULSE 2i, PULSE SOUNDBAR, PULSE SOUNDBAR 2i,
3 PULSE SUB, POWERNODE, POWERNODE 2, and POWERNODE 2i) that meet
4 one or more claims of the '721 Patent. *See, e.g.*, Ex. 65. These software updates
5 are material components of the Bluesound Players that meet the one or more claims
6 of the '721 Patent. Further, Defendants especially made and/or adapted these
7 software updates for use in the Bluesound Players that meet the one or more claims
8 of the '721 Patent, and these software updates are not staple articles of commerce
9 suitable for substantial noninfringing use. Defendants' customers then directly
10 infringe the one or more claims of the '721 Patent by installing and using software
11 updates on the Bluesound Players.

12 201. Defendants' infringement of the '721 Patent is also willful because
13 Defendants (a) had actual knowledge of the '721 Patent or were willfully blind to
14 its existence prior to (at least as early as November 1, 2018), and no later than, the
15 filing of this action (*see* ¶¶ 14-16 above), (b) engaged in the aforementioned activity
16 despite an objectively high likelihood that Defendants' actions constituted
17 infringement of the '721 Patent, and (c) this objectively-defined risk was either
18 known or so obvious that it should have been known to Defendants.

19 202. Additional allegations regarding Defendants' pre-suit knowledge of
20 the '721 Patent and willful infringement will likely have evidentiary support after
21 a reasonable opportunity for discovery.

22 203. Sonos is in compliance with any applicable marking and/or notice
23 provisions of 35 U.S.C. § 287 with respect to the '721 Patent.

24 204. Sonos is entitled to recover from Defendants all damages that Sonos
25 has sustained as a result of Defendants' infringement of the '721 Patent, including,
26 without limitation, a reasonable royalty and lost profits.

27 205. Defendants' infringement of the '721 Patent was and continues to be
28 willful and deliberate, entitling Sonos to enhanced damages.

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Respectfully submitted,

Dated: June 20, 2019

ORRICK HERRINGTON & SUTCLIFFE LLP
and
LEE SULLIVAN SHEA & SMITH LLP

By: /s/ Alyssa Caridis

Alyssa Caridis
Attorneys for Plaintiff Sonos, Inc.