



(12)

EUROPEAN PATENT APPLICATION

- (88)

Date of publication A3:
09.04.2025 Bulletin 2025/15
- (51)

International Patent Classification (IPC):
H04R 27/00 (2006.01)
- (43)

Date of publication A2:
08.01.2025 Bulletin 2025/02
- (52)

Cooperative Patent Classification (CPC):
H04R 27/00; H04R 2227/003; H04R 2227/005;
H04R 2420/07
- (21)

Application number: 24191135.3
- (22)

Date of filing: 24.02.2016

- | | |
|--|--|
| <div>(84)</div> <div>Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR</div> | <div>(71)</div> <div>Applicant: Sonos, Inc.
Goleta, CA 93117 (US)</div> |
| <div>(30)</div> <div>Priority: 25.02.2015 US 201514631723
25.02.2015 US 201514631713</div> | <div>(72)</div> <div>Inventors:
• FULLERTON, Benjamin
Goleta, 93117 (US)
• HOLMUNG, Ingve
Goleta, 93117 (US)</div> |
| <div>(62)</div> <div>Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
21210296.6 / 4 064 733
19208160.2 / 3 641 346
16711922.1 / 3 111 674</div> | <div>(74)</div> <div>Representative: EIP
Fairfax House
15 Fulwood Place
London WC1V 6HU (GB)</div> |

(54)

PLAYBACK EXPANSION

- (57)

Examples described herein involve expanding playback of a media item from a first playback device to a second playback device. In one example, a first playback device of a first zone, identifies a second playback device within a proximity of the first playback device, determines that the second playback device is playing a media item as part of a second zone, and based on the determination, joins the second zone and begins playing the media
- item in synchrony with the second playback device. In another example, a first playback device, while playing a media item as part of a first zone, determines that a second playback device of a second zone has entered a proximity of the first playback device, and responsively, causes the second playback device to join the first zone and begin playing the media item in synchrony with the first playback device.

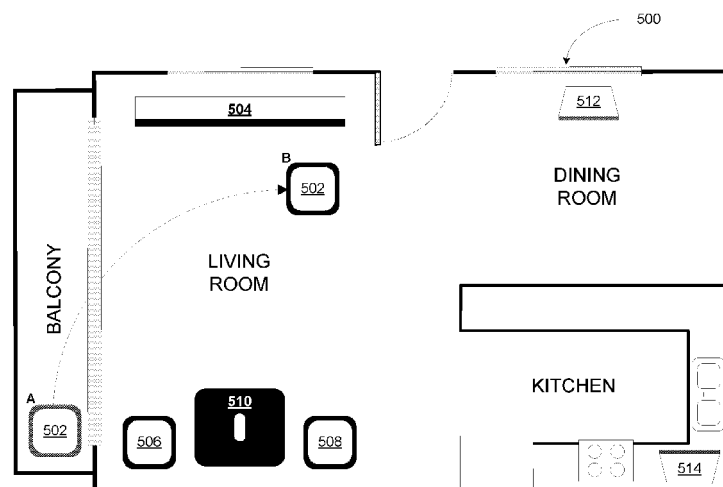


FIGURE 5A



EUROPEAN SEARCH REPORT

Application Number

EP 24 19 1135

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2014/229959 A1 (BECKHARDT STEVEN [US] ET AL) 14 August 2014 (2014-08-14) * paragraphs [0022], [0027], [0032], [0040], [0048], [0060], [0068], [0076], [0084], [0091], [0093]; figure 1 * * paragraphs [0103], [0109] - [0112], [0124], [0128] * -----	1-15	INV. H04R27/00
X	US 2013/331970 A1 (BECKHARDT STEVEN ROBERT [US] ET AL) 12 December 2013 (2013-12-12) * paragraphs [0038], [0061], [0077] - [0084], [0104], [0109] - [0111]; figure 6A * -----	1-15	
X	EP 2 180 727 A2 (RESEARCH IN MOTION LTD [CA]) 28 April 2010 (2010-04-28) * paragraphs [0039], [0046] - [0049], [0055] - [0057]; claim 1; figures 3 - 6 * -----	1,15 2-14	
A	US 2014/323036 A1 (DALEY MICHAEL J [US] ET AL) 30 October 2014 (2014-10-30) * paragraphs [0022] - [0025], [0040] - [0045], [0057], [0064]; figures 1, 4 * -----	1-15	TECHNICAL FIELDS SEARCHED (IPC)
A	US 2013/316686 A1 (SUBBARAMOO SHOBHA M [US] ET AL) 28 November 2013 (2013-11-28) * paragraphs [0007], [0046], [0120]; figure 15 * -----	1-15	H04R H04W G06F
X	US 2005/286546 A1 (BASSOLI ARIANNA [IT] ET AL) 29 December 2005 (2005-12-29) * paragraphs [0008], [0011] - [0014], [0037] - [0057]; figures 1 - 3 * -----	1,15 2-14	
- / - -			
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		26 February 2025	Lörch, Dominik
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



EUROPEAN SEARCH REPORT

Application Number

EP 24 19 1135

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 2014/270284 A1 (LUNA MICHAEL EDWARD SMITH [US]) 18 September 2014 (2014-09-18) * paragraphs [0003], [0016], [0020] - [0027], [0042], [0048], [0056] - [0065]; figures 1 -7B *	1 - 15	
X	US 2014/006587 A1 (SONOS INC [US]) 2 January 2014 (2014-01-02) * paragraphs [0023], [0029], [0039], [0040], [0063], [0081], [0083]; figure 6 *	1, 15	
E	EP 2 993 909 A1 (SONOS INC [US]) 9 March 2016 (2016-03-09) * paragraphs [0036] - [0039], [0042], [0063], [0087] - [0089], [0096]; figure 9 *	1, 15	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		26 February 2025	Lörch, Dominik
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 24 19 1135

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-02-2025

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2014229959 A1	14-08-2014	CN 105122724 A	02-12-2015
		CN 110087125 A	02-08-2019
		EP 2957067 A1	23-12-2015
		EP 3793133 A1	17-03-2021
		JP 6157648 B2	05-07-2017
		JP 2016514280 A	19-05-2016
		US 2014229959 A1	14-08-2014
		US 2016100206 A1	07-04-2016
		US 2019238913 A1	01-08-2019
		US 2021105519 A1	08-04-2021
		US 2022248071 A1	04-08-2022
		US 2023308698 A1	28-09-2023
		US 2024259619 A1	01-08-2024
		WO 2014127281 A1	21-08-2014
US 2013331970 A1	12-12-2013	CN 105453178 A	30-03-2016
		CN 108965970 A	07-12-2018
		EP 2859550 A1	15-04-2015
		EP 3021547 A1	18-05-2016
		EP 3322154 A1	16-05-2018
		EP 3926460 A1	22-12-2021
		EP 4224867 A1	09-08-2023
		JP 6177318 B2	09-08-2017
		JP 6626048 B2	25-12-2019
		JP 6995104 B2	14-01-2022
		JP 2015527768 A	17-09-2015
		JP 2017216704 A	07-12-2017
		JP 2020057003 A	09-04-2020
		US 2013331970 A1	12-12-2013
		US 2015045922 A1	12-02-2015
		US 2015169282 A1	18-06-2015
		US 2015331663 A1	19-11-2015
		US 2018329674 A1	15-11-2018
		US 2020178019 A1	04-06-2020
		US 2022279308 A1	01-09-2022
EP 2180727 A2	28-04-2010	US 2023379653 A1	23-11-2023
		US 2024292180 A1	29-08-2024
		WO 2013184792 A1	12-12-2013
EP 2180727 A2	28-04-2010	AT E463104 T1	15-04-2010
		EP 1981213 A1	15-10-2008
		EP 1981214 A1	15-10-2008
		EP 2180727 A2	28-04-2010
		EP 2393258 A2	07-12-2011
US 2014323036 A1	30-10-2014	EP 2992630 A2	09-03-2016

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 24 19 1135

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-02-2025

10	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
			EP 3934131 A1	05-01-2022
			US 2014323036 A1	30-10-2014
			US 2016174180 A1	16-06-2016
15			US 2017347331 A1	30-11-2017
			US 2018049144 A1	15-02-2018
			US 2018049145 A1	15-02-2018
			US 2018049146 A1	15-02-2018
			US 2018317189 A1	01-11-2018
20			US 2018317190 A1	01-11-2018
			US 2018317191 A1	01-11-2018
			US 2018317192 A1	01-11-2018
			US 2018317193 A1	01-11-2018
			US 2021185629 A1	17-06-2021
25			US 2023403663 A1	14-12-2023
			WO 2014179155 A2	06-11-2014

	US 2013316686 A1	28-11-2013	CN 104521224 A	15-04-2015
			EP 2853080 A1	01-04-2015
			JP 2015519024 A	06-07-2015
30			KR 20150018824 A	24-02-2015
			US 2013316686 A1	28-11-2013
			US 2017265064 A1	14-09-2017
			WO 2013177013 A1	28-11-2013

35	US 2005286546 A1	29-12-2005	NONE	

	US 2014270284 A1	18-09-2014	AU 2014243765 A1	05-11-2015
			CA 2906548 A1	02-10-2014
			EP 2974296 A2	20-01-2016
			RU 2015143307 A	18-04-2017
40			US 2014270284 A1	18-09-2014
			WO 2014160472 A2	02-10-2014

	US 2014006587 A1	02-01-2014	CN 104603825 A	06-05-2015
			CN 110083326 A	02-08-2019
45			EP 2867848 A1	06-05-2015
			EP 3611927 A1	19-02-2020
			EP 4002859 A1	25-05-2022
			JP 6002843 B2	05-10-2016
			JP 6290306 B2	07-03-2018
			JP 2015533267 A	19-11-2015
50			JP 2016184964 A	20-10-2016
			US 2014006587 A1	02-01-2014
			US 2016110156 A1	21-04-2016
			US 2016112744 A1	21-04-2016
55			US 2016112745 A1	21-04-2016

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 24 19 1135

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-02-2025

10	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
			US 2018173491 A1	21-06-2018
			US 2019026070 A1	24-01-2019
15			US 2020117419 A1	16-04-2020
			US 2022197591 A1	23-06-2022
			US 2023153055 A1	18-05-2023
			US 2024220191 A1	04-07-2024
			WO 2014004684 A1	03-01-2014

20	EP 2993909	A1 09-03-2016	EP 2993909 A1	09-03-2016
			EP 3512208 A1	17-07-2019
			EP 3923593 A2	15-12-2021
			US 2016062606 A1	03-03-2016
			US 2016246568 A1	25-08-2016
25			US 2016299669 A1	13-10-2016
			US 2019012069 A1	10-01-2019
			US 2019243534 A1	08-08-2019
			US 2020348830 A1	05-11-2020
			US 2020393958 A1	17-12-2020
			US 2022353556 A1	03-11-2022
30			US 2025013360 A1	09-01-2025
			WO 2016036870 A1	10-03-2016

35				
40				
45				
50				
55				

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82