



(11) EP 3 397 033 A1

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication: 31.10.2018 Bulletin 2018/44

(21) Application number: 18178244.2

(22) Date of filing: 11.08.2017

(51) Int Cl.:

H05K 1/02 (2006.01) H04R 1/02 (2006.01) H04R 1/28 (2006.01) H04R 1/40 (2006.01) H04R 5/02 (2006.01) H03K 17/96 (2006.01) H04R 1/26 (2006.01) H04R 1/30 (2006.01) H04R 3/12 (2006.01) H04R 31/100 (2006.01)

(84) 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

Designated Extension States:

BA ME

Designated Validation States:

MA MD

(30) Priority: 23.09.2016 US 201662399165 P
23.09.2016 US 201662399229 P
23.09.2016 US 201662399262 P
23.09.2016 US 201662399293 P
23.09.2016 US 201662399288 P
16.05.2017 US 201762507007 P
02.06.2017 US 201715613063
02.06.2017 US 201715613066
02.06.2017 US 201715613073
02.06.2017 US 201715613073

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC: 17755393.0 / 3 369 254

02.06.2017 US 201715613079

(71) Applicant: Apple Inc.

Cupertino CA 95014 (US)

(72) Inventors:

STANLEY, Craig M.
 Cupertino, California 95014 (US)

PORTER, Simon K.
 Cupertino, California 95014 (US)

SHEERIN, John H.
 Cupertino, California 95014 (US)

TRAINER, Glenn K.
 Cupertino, California 95014 (US)

DELLA ROSA, Jason C.
 Cupertino, California 95014 (US)

HUWE, Ethan L.
 Cupertino, California 95014 (US)

MCINTOSH, Sean T.
 Cupertino, California 95014 (US)

 WANG, Erik L. Cupertino, California 95014 (US)

 STRINGER, Christopher J. Woodside, California 94062 (US)

ANDERSON, Molly J.
 Cupertino, California 95014 (US)

 PARKER, Samuel G. Cupertino, California 95014 (US)

 WU, Meiting Cupertino, California 95014 (US)

 MENDEZ, Javier Cupertino, California 95014 (US)

 LIU, Rong Cupertino, California 95014 (US)

COUSINS, Benjamin A.
 Cupertino, California 95014 (US)

 SUN, Yupin Cupertino, California 95014 (US)

Cupertino, California 95014 (US)
 BRINSFIELD, Jason W.
 Cupertino, California 95014 (US)

(74) Representative: COPA Copenhagen Patents Rosenørns Allé 1, 2nd floor 1970 Frederiksberg C (DK)

Remarks:

• Ql. Jun

This application was filed on 18-06-2018 as a divisional application to the application mentioned under INID code 62.

(54) ILLUMINATED USER INTERFACE ARCHITECTURE

(57) This disclosure relates to speakers and more specifically to an array speaker for distributing music uniformly across a room. A number of audio drivers can be radially distributed within a speaker housing so that an output of the drivers is distributed evenly throughout the room. In some embodiments, the exit geometry of the

audio drivers can be configured to bounce off a surface supporting the array speaker to improve the distribution of music throughout the room. The array speaker can include a number of vibration isolation elements distributed within a housing of the array speaker. The vibration isolation elements can be configured reduce the strength