

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 021031 032WO1	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2018/033133	International filing date (<i>day/month/year</i>) 17 May 2018 (17-05-2018)	(Earliest) Priority Date (<i>day/month/year</i>) 30 May 2017 (30-05-2017)
Applicant BOSE CORPORATION		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- the international application in the language in which it was filed
 a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

c. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box No. II)

3. **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- the text is approved as submitted by the applicant
 the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant
 the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1
 as suggested by the applicant
 as selected by this Authority, because the applicant failed to suggest a figure
 as selected by this Authority, because this figure better characterizes the invention
- b. none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2018/033133

A. CLASSIFICATION OF SUBJECT MATTER
 INV. A61F11/08 C08L23/14 C08L23/22 C08L45/00 C08L75/04
 C08L83/04 H04R1/10
 ADD.
 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 A61F C08L H04R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2011/135742 A1 (YUPO CORP [JP]; UCHINO RYOUICHI [JP]; ISHIMOTO SHOUICHI [JP]; SUZUKI T) 3 November 2011 (2011-11-03) claim 1 -----	1-5,16, 17,20
X	WO 2013/001506 A2 (KONINKL PHILIPS ELECTRONICS NV [NL]; BURDINSKI DIRK [DE]; VAN ZANTEN J) 3 January 2013 (2013-01-03) example 1 -----	1-20, 26-31
X	KR 2015 0101243 A (PHILOS CO LTD [KR]) 3 September 2015 (2015-09-03) paragraphs [0083] - [0127] -----	1-19
Y A	WO 2009/021849 A1 (CIBA HOLDING INC [CH]; LOEHNER BEATRIX [GB]; BUTTERS MARTIN [GB]; NORM) 19 February 2009 (2009-02-19) examples 1-8 -----	8,9 21-25
Y	WO 2009/021849 A1 (CIBA HOLDING INC [CH]; LOEHNER BEATRIX [GB]; BUTTERS MARTIN [GB]; NORM) 19 February 2009 (2009-02-19) examples 1-8 -----	8,9

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 15 October 2018	Date of mailing of the international search report 07/11/2018
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Schmidt, Helmut
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2018/033133

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2011135742 A1	03-11-2011	CN 102869708 A WO 2011135742 A1	09-01-2013 03-11-2011

WO 2013001506 A2	03-01-2013	CN 103635512 A EP 2726540 A2 EP 2808050 A2 JP 6030645 B2 JP 2014523775 A US 2014134416 A1 WO 2013001506 A2	12-03-2014 07-05-2014 03-12-2014 24-11-2016 18-09-2014 15-05-2014 03-01-2013

KR 20150101243 A	03-09-2015	NONE	

WO 2009021849 A1	19-02-2009	CN 101878267 A DK 2178973 T3 EP 2178973 A1 ES 2400715 T3 JP 5693223 B2 JP 2010535919 A KR 20100069649 A US 2011042613 A1 WO 2009021849 A1	03-11-2010 15-04-2013 28-04-2010 11-04-2013 01-04-2015 25-11-2010 24-06-2010 24-02-2011 19-02-2009
