

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2020/057673

A. CLASSIFICATION OF SUBJECT MATTER**H05K 1/11**(2006.01)i; **H05K 3/40**(2006.01)i

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)

H05K

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 Y	US 2008277155 A1 (HORIUCHI AKIO [JP]) 13 November 2008 (2008-11-13) paragraphs [0033], [0038], [0049] - [0055]; figures 2M,2N,4G,4H	1-6,8-17 7,18
X	US 2007096328 A1 (TAKAHASHI MICHIMASA [JP] ET AL) 03 May 2007 (2007-05-03) paragraphs [0045], [0046], [0049] - [0054]; figures 1, 12B	1,2,4-6,8-17
X	EP 1206171 A2 (MATSUSHITA ELECTRIC IND CO LTD [JP]) 15 May 2002 (2002-05-15) paragraphs [0029], [0061], [0089] - [0095]; figure 6	1-6,8-17
X	EP 3200570 A1 (AT&S CO LTD [CN]) 02 August 2017 (2017-08-02) paragraphs [0028] - [0033], [0047], [0048]; figures 1-5	1,2,4-6,8-17
Y	US 2018279472 A1 (SUNOHARA SATOSHI [JP]) 27 September 2018 (2018-09-27) paragraphs [0041] - [0044]; figures 2B-2I	7,18

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

* Special categories of cited documents:

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Date of the actual completion of the international search 04 June 2020	Date of mailing of the international search report 17 June 2020
Name and mailing address of the ISA/EP European Patent Office p.b. 5818, Patentlaan 2, 2280 HV Rijswijk Netherlands Telephone No. (+31-70)340-2040 Facsimile No. (+31-70)340-3016	Authorized officer Goethals, Filip Telephone No.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/EP2020/057673

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