Europäisches Patentamt
European Patent Office
Office européen des brevets

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 19 84 00 05

Classification of the application (IPC):
F21V 13/14*, *F21K 9/60*, *F21V 29/70*, *F21V 9/32

Technical fields searched (IPC):
H01S, H01L, F21V

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y	WO 2017056469 A1 (PANASONIC IP MAN CO LTD [JP]) 06 April 2017 (2017-04-06) * figures 1,5 *	1-15
Y,P	US 2018216811 A1 (FUKAKUSA MASAHARU [JP] ET AL) 02 August 2018 (2018-08-02) * paragraphs [0073] - [0076], [0112]; figures 2,5 *	1-15
Y	US 2015184830 A1 (NAGAO NOBUAKI [JP] ET AL) 02 July 2015 (2015-07-02) * paragraphs [0093], [0097]; figure 3 *	1-15
A	US 2011297985 A1 (NAKA TOMOMICHI [JP]) 08 December 2011 (2011-12-08) * paragraphs [0144] - [0147]; figure 1 *	1-15
A	US 2013314937 A1 (TAKAHASHI KOJI [JP] ET AL) 28 November 2013 (2013-11-28) * paragraphs [0134] - [0140]; figures 14,15 *	1-15

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search	Date of completion of the search	Examiner
The Hague	22 April 2022	Claessen, Michiel

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

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.

EP 3 830 478 A4

© 2020 org.epo.publication.kb xsl stylesheet v1.0.1SRnfp

Europäisches Patentamt
European Patent Office
Office européen des brevets

ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 19 84 00 05

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 22-04-2022
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2017056469 A1	06-04-2017	CN 108027125 A	11-05-2018
		EP 3358245 A1	08-08-2018
		JP WO2017056469 A1	12-07-2018
		US 2018216811 A1	02-08-2018
		WO 2017056469 A1	06-04-2017
US 2018216811 A1	02-08-2018	CN 108027125 A	11-05-2018
		EP 3358245 A1	08-08-2018
		JP WO2017056469 A1	12-07-2018
		US 2018216811 A1	02-08-2018
		WO 2017056469 A1	06-04-2017
US 2015184830 A1	02-07-2015	CN 104603530 A	06-05-2015
		EP 3012523 A1	27-04-2016
		EP 3168531 A1	17-05-2017
		JP 5970661 B2	17-08-2016
		JP WO2014203484 A1	23-02-2017
		US 2015184830 A1	02-07-2015
		WO 2014203484 A1	24-12-2014
US 2011297985 A1	08-12-2011	JP 5426484 B2	26-02-2014
		JP 2011258658 A	22-12-2011
		US 2011297985 A1	08-12-2011
		US 2015044793 A1	12-02-2015
US 2013314937 A1	28-11-2013	JP 5968682 B2	10-08-2016
		JP 2013246943 A	09-12-2013
		US 2013314937 A1	28-11-2013
		US 2015308644 A1	29-10-2015

EP 3 830 478 A4

© 2020 org.epo.publication.kb xsl stylesheet v1.0.1SRnfp

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.