Europäisches Patentamt
European Patent Office
Office européen des brevets

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 16 91 15 66

Classification of the application (IPC):
F25B 39/00*, *F25B 1/00*, *F25B 41/04*, *F25B 13/00*, *F25B 39/02

Technical fields searched (IPC):
F25B, F28D, F24F

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y	JP H1137587 A (FUJITSU GENERAL LTD) 12 February 1999 (1999-02-12) * paragraph [0010]; figure 1 *	1-4
Y	WO 2015162689 A1 (MITSUBISHI ELECTRIC CORP [JP]) 29 October 2015 (2015-10-29) * claim 6; figures 2,4,5 *	1-4
A	EP 2455689 A2 (LG ELECTRONICS INC [KR]) 23 May 2012 (2012-05-23) * paragraphs [0057] - [0075]; figures 3,7,8 *	1-4
A	JP 2012202624 A (TOSHIBA CARRIER CORP) 22 October 2012 (2012-10-22) * paragraphs [0020] - [0033]; figure 1 *	1-4
A	US 5660056 A (ARAI YASUHIRO [JP] ET AL) 26 August 1997 (1997-08-26) * columns 3-5; figures 1,2,4 *	1-4

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
Munich	25 April 2019	Amous, Moez

CATEGORY OF CITED DOCUMENTS

X: particularly relefant if taken alone
Y : particularly relefant 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 3 492 844 A4

© 2019 org.epo.publication.KlausBaumeister xsl stylesheet v0.9.3SRnfp

Europäisches Patentamt
European Patent Office
Office européen des brevets

ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 16 91 15 66

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 25-04-2019
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
JP H1137587 A	12-02-1999	*NONE*	
WO 2015162689 A1	29-10-2015	AU 2014391505 A1	10-11-2016
		CN 106233077 A	14-12-2016
		EP 3141825 A1	15-03-2017
		JP 6352401 B2	04-07-2018
		JP WO2015162689 A1	13-04-2017
		KR 20160146885 A	21-12-2016
		US 2017122630 A1	04-05-2017
		WO 2015162689 A1	29-10-2015
EP 2455689 A2	23-05-2012	CN 102706046 A	03-10-2012
		EP 2455689 A2	23-05-2012
		JP 6034418 B2	30-11-2016
		JP 2012107857 A	07-06-2012
		JP 2015117936 A	25-06-2015
		KR 20120053730 A	29-05-2012
		US 2012118533 A1	17-05-2012
JP 2012202624 A	22-10-2012	*NONE*	
US 5660056 A	26-08-1997	CN 1114736 A	10-01-1996
		JP H07208821 A	11-08-1995
		US 5660056 A	26-08-1997

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

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.

© 2019 org.epo.publication.KlausBaumeister xsl stylesheet v0.9.3SRnfp