Europäisches Patentamt
European Patent Office
Office européen des brevets

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 22 81 07 08

Classification of the application (IPC):
E03C 1/04*, *F16K 27/06

Technical fields searched (IPC):
E03C

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2007261167 A1 (HECKER HANS-HERMANN [DE]) 15 November 2007 (2007-11-15)	1-4, 6-9, 13, 14
Y	* paragraph [0024] - paragraph [0043]; figures 1-8 *	4, 6
A		5, 10-12
X	US 7043777 B2 (NEWFREY LLC [US]) 16 May 2006 (2006-05-16)	1-4, 6-9, 13, 14
Y	* column 2 - column 3; figures 1-7 *	4, 6
Y	US 8925571 B2 (LI CHUNHUNG [TW]; WU YONGJUN [TW] ET AL.) 06 January 2015 (2015-01-06) * figures 1,3-5 *	4, 6

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	01 August 2024	Horst, Werner

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 4 350 090 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 22 81 07 08

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 01-08-2024
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
US 2007261167	A1	15-11-2007	AT	E410558 T1	15-10-2008
			CN	101035953 A	12-09-2007
			DE	102004049736 A1	22-06-2006
			EP	1799920 A1	27-06-2007
			HK	1106808 A1	20-03-2008
			JP	2008516118 A	15-05-2008
			US	2007261167 A1	15-11-2007
			WO	2006040102 A1	20-04-2006
US 7043777	B2	16-05-2006	BR	0206050 A	29-07-2003
			CA	2429796 A1	10-04-2003
			CN	1498298 A	19-05-2004
			MX	PA03004912 A	05-09-2003
			US	2004078893 A1	29-04-2004
			WO	03029570 A1	10-04-2003
US 8925571	B2	06-01-2015	CA	2788501 A1	18-07-2013
			CN	202629230 U	26-12-2012
			DE	202012104488 U1	03-12-2012
			FR	2985747 A3	19-07-2013
			GB	2498603 A	24-07-2013
			US	2013180601 A1	18-07-2013

EP 4 350 090 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.