

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2018/073128

A. CLASSIFICATION OF SUBJECT MATTER		
A61F 9/04(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) A42B; A42C; A61F		
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	DE 202013101085 U1 (HAERTEL FRED [DE]) 19 March 2013 (2013-03-19) paragraph [0007] - paragraph [0068]; figures 1-5	1-3,5,7,9,13,14,24 4,6,8,10,12,15-23
X	DE 102012000793 A1 (CASTELLANETA GIUSEPPE [DE]) 18 July 2013 (2013-07-18) the whole document	1,7,11,24
Y	US 2016163221 A1 (PATEL N R; SOMMERS E T) 09 June 2016 (2016-06-09) paragraph [0017] - paragraph [0053]; figures 1-9	6,15-23
Y	WO 2008099047 A1 (LAHTINEN MATTI [FI]) 21 August 2008 (2008-08-21) page 3, line 6 - line 28	4,8,12
Y	DE 102005032136 A1 (PIETSCHMANN SIEGBERT [DE]) 18 January 2007 (2007-01-18) claim 7	10
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> 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 "E" earlier application or patent but published on or after the international filing date "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) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "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 "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 "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 "&" document member of the same patent family		
Date of the actual completion of the international search 11 December 2018		Date of mailing of the international search report 20 December 2018
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 Legu, A Telephone No.

INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
DE	202013101085	U1	19 March 2013	DE	102014103187	A1	18 September 2014
				DE	202013101085	U1	19 March 2013
DE	102012000793	A1	18 July 2013	NONE			
US	2016163221	A1	09 June 2016	CN	107427389	A	01 December 2017
				EP	3226821	A1	11 October 2017
				US	2016163221	A1	09 June 2016
				US	2018308385	A1	25 October 2018
				WO	2016089545	A1	09 June 2016
WO	2008099047	A1	21 August 2008	NONE			
DE	102005032136	A1	18 January 2007	NONE			