

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2018/067631

A. CLASSIFICATION OF SUBJECT MATTER		
<i>F15B 1/08</i> (2006.01)i; <i>F15B 1/10</i> (2006.01)i; <i>F16L 55/054</i> (2006.01)i; <i>F24D 3/10</i> (2006.01)i; <i>F15B 1/16</i> (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) F15B; F16L; F24D; B01D		
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	DE 102005035749 A1 (HYDAC TECHNOLOGY GMBH [DE]) 01 February 2007 (2007-02-01) figure 2, paragraphs 3,5,11-18, claims 1-3,8	1,2,5,8
X	DE 102006026413 A1 (VOITH PATENT GMBH [DE]) 13 December 2007 (2007-12-13) figure, paragraphs 13,30-33, claim 23	1,2
X	GB 2176589 A (WARMAC LTD) 31 December 1986 (1986-12-31) figures 1-4, claims 1-3	1,6-8
X	US 2009095366 A1 (GRAY JR CHARLES L [US]) 16 April 2009 (2009-04-16) figure 1, paragraph 11	1-4,6-8
X	DE 102007016131 A1 (BOSCH GMBH ROBERT [DE]) 02 October 2008 (2008-10-02) figure 1, paragraphs 22-27	1,2,7-10
<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 07 September 2018		Date of mailing of the international search report 17 September 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 Weber, Christian Telephone No.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

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Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
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				EP	1910672	A1	16 April 2008
				JP	2009503382	A	29 January 2009
				US	2009205731	A1	20 August 2009
				WO	2007014583	A1	08 February 2007

DE	102006026413	A1	13 December 2007	NONE			

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				WO	2008119587	A1	09 October 2008
