

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2018/067631

A. CLASSIFICATION OF SUBJECT MATTER*F15B 1/08*(2006.01)i; *F15B 1/10*(2006.01)i; *F16L 55/054*(2006.01)i; *F24D 3/10*(2006.01)i; *F15B 1/16*(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

 Further documents are listed in the continuation of Box C. See patent family annex.

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“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

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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.

PCT/EP2018/067631

Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
DE	102005035749	A1	01 February 2007	DE	102005035749	A1	01 February 2007
				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			
GB	2176589	A	31 December 1986	NONE			
US	2009095366	A1	16 April 2009	NONE			
DE	102007016131	A1	02 October 2008	DE	102007016131	A1	02 October 2008
				WO	2008119587	A1	09 October 2008