

**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/EP2018/050374

**A. CLASSIFICATION OF SUBJECT MATTER**  
 INV. F16B13/00 F16B13/02  
 ADD. F16B13/12 F16B25/00

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)  
 F16B

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 10 2007 005280 A1 (FISCHER ARTUR WERKE GMBH [DE]) 31 October 2007 (2007-10-31) paragraph [0030] - paragraph [0046]; figure 1 paragraph [0050] - paragraph [0057]; figures 5-7	1-10
A	----- US 5 234 299 A (GIANNUZZI LOUIS N [US]) 10 August 1993 (1993-08-10) column 5, line 21 - column 8, line 8; figures 1-8 -----	1,4,6,7

Further documents are listed in the continuation of Box C.

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 <b>15 March 2018</b>	Date of mailing of the international search report <b>28/03/2018</b>
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  <b>Heinzler, Markus</b>
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2018/050374

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 102007005280 A1	31-10-2007	NONE	
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US 5234299	A	10-08-1993	US 5234299 A
			10-08-1993
			US 5449257 A
			12-09-1995
			US 5482418 A
			09-01-1996
			US 5625994 A
			06-05-1997
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