

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2018/074315

A. CLASSIFICATION OF SUBJECT MATTER**F42B 12/06**(2006.01)i; **F42B 12/20**(2006.01)i; **F42B 12/74**(2006.01)i; **F42B 12/78**(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)

F42B

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.
A	US 4444112 A (STRANDLI KAARE R [NO] ET AL) 24 April 1984 (1984-04-24) cited in the application column 2, line 63 - column 4, line 35 figure 1	1-17
A	DE 19948710 A1 (RHEINMETALL W & M GMBH [DE]) 12 April 2001 (2001-04-12) column 2, lines 23-29	1-17
A	BE 905373 A (HERSTAL SA) 04 March 1987 (1987-03-04)	1-17
A	US 3208385 A (WILHELM PERNISS) 28 September 1965 (1965-09-28) cited in the application	1-17

 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

05 November 2018

Date of mailing of the international search report

12 November 2018

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/EP2018/074315

Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
US	4444112	A	24 April 1984	BE	894484	A	17 January 1983
				FR	2533309	A1	23 March 1984
				US	4444112	A	24 April 1984

DE	19948710	A1	12 April 2001	NONE			

BE	905373	A	04 March 1987	NONE			

US	3208385	A	28 September 1965	CH	422584	A	15 October 1966
				DE	1240760	B	18 May 1967
				US	3208385	A	28 September 1965
