



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 18 91 74 08

Classification of the application (IPC):
F28F 1/42, F28F 1/26

Technical fields searched (IPC):
F28F

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	DE 3332282 A1 (KOBE STEEL LTD [JP]) 08 March 1984 (1984-03-08) * page 1, line 3 - line 23; figure 6 *	1-15
A	CN 107782192 A (UNIV SOUTH CHINA TECH) 09 March 2018 (2018-03-09) * paragraph [0025]; figure 1 *	1-15
A	US 2007034361 A1 (LU MINGHUA [CN] ET AL) 15 February 2007 (2007-02-15) * paragraph [0004]; figure 3 *	1-15
A	CN 201803635 U (YANTAI HENGHUI COPPER MATERIAL CO., LTD.) 20 April 2011 (2011-04-20) * figure 2 *	1-15
A	US 2007131396 A1 (YU CHUANFU [CN] ET AL) 14 June 2007 (2007-06-14) * figure 3 *	1-15
A	US 5203404 A (CHIANG ROBERT H L [US] ET AL) 20 April 1993 (1993-04-20) * figure 4 *	1-15

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 18 November 2020	Examiner Bain, David
---------------------------	--	-------------------------

CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.


**ANNEX TO SUPPLEMENTARY EUROPEAN
SEARCH REPORT**

 Application number:
EP 18 91 74 08

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 18-11-2020
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
DE 3332282	A1	08-03-1984	DE 3332282 A1 US 4549606 A	08-03-1984 29-10-1985
CN 107782192	A	09-03-2018	NONE	
US 2007034361	A1	15-02-2007	CN 1731066 A US 2007034361 A1	08-02-2006 15-02-2007
CN 201803635	U	20-04-2011	NONE	
US 2007131396	A1	14-06-2007	CN 1982828 A US 2007131396 A1	20-06-2007 14-06-2007
US 5203404	A	20-04-1993	AU 3392393 A BR 9300675 A CN 1076271 A DE 559599 T1 DE 69300031 T2 EP 0559599 A1 ES 2042474 T1 KR 930020136 A US 5203404 A	09-09-1993 08-09-1993 15-09-1993 03-02-1994 04-05-1995 08-09-1993 16-12-1993 19-10-1993 20-04-1993