



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 18 93 81 99

Classification of the application (IPC):
D07B 1/16, E01F 15/06

Technical fields searched (IPC):
D07B, E01F

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 6355349 B2 (CHIZMAS JEFFREY J [US]) 12 March 2002 (2002-03-12) * column 2, lines 3-36; claims 1,11; figures 1,3 * * column 3, lines 8,9 *	1
Y	JP H07138923 A (IGETA SEIKO KK) 30 May 1995 (1995-05-30) * paragraphs [0001], [0012]; figure 2 *	1, 2
Y	CN 206815240 U (CHINA RAILWAY CONSTRUCTION GROUP MUNICIPAL ENG CO LTD) 29 December 2017 (2017-12-29) * claim 1; figure 1 *	1, 2
Y	JP 2000120648 A (ASAHI INTECC CO LTD) 25 April 2000 (2000-04-25) * abstract; figures *	1, 2
Y	US 7204206 B2 (NITE GLOW IND INC [US]) 17 April 2007 (2007-04-17) * column 9, lines 5-20; claim 1 *	1, 2
A	JP S6289313 U (.) 08 June 1987 (1987-06-08) * figures *	1, 2
E	KR 20190080330 A (LEE JAE MOON [KR]) 08 July 2019 (2019-07-08) * paragraphs [0017], [0021], [0025] - [0027], [0029]; figures 2a,2b *	1, 2

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 The Hague	Date of completion of the search 03 May 2022	Examiner Uhlig, Robert
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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

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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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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 03-05-2022
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6355349	B2	12-03-2002	NONE	
JP H07138923	A	30-05-1995	NONE	
CN 206815240	U	29-12-2017	NONE	
JP 2000120648	A	25-04-2000	NONE	
US 7204206	B2	17-04-2007	NONE	
JP S6289313	U	08-06-1987	NONE	
KR 20190080330	A	08-07-2019	NONE	