



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 17 90 76 86

Classification of the application (IPC):
B61F 5/24

Technical fields searched (IPC):
B61F

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X A	WO 2016063382 A1 (HITACHI LTD [JP]) 28 April 2016 (2016-04-28) * figure 1 *	1 2-7
A	WO 9209469 A1 (MAN GHH SCHIENENVERKEHR [DE]) 11 June 1992 (1992-06-11) * figures 4,5 *	1-7
X A	JP 2011213148 A (HITACHI LTD) 27 October 2011 (2011-10-27) * figure 12 *	1 2-7
A	JP 2002145061 A (HITACHI LTD) 22 May 2002 (2002-05-22) * figure 4 *	1-7
A	EP 1075407 A1 (TALBOT GMBH & CO KG [DE]; DEUTSCHE BAHN AG [DE]) 14 February 2001 (2001-02-14) * figure 2 *	1-7
A	JP 2009149304 A (SUMITOMO METAL IND) 09 July 2009 (2009-07-09) * figure 2 *	1-7
A	JP H10287241 A (SUMITOMO METAL IND) 27 October 1998 (1998-10-27) * figure 3 *	1-7

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 07 September 2020	Examiner Lorandi, Lorenzo
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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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EP 17 90 76 86

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 07-09-2020
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