



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 18 87 13 83

Classification of the application (IPC):
B61L 5/10, B61L 19/06, B61L 25/06

Technical fields searched (IPC):
B61L

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	EP 1970280 A1 (SIEMENS SCHWEIZ AG [CH]) 17 September 2008 (2008-09-17) * paragraphs [0001], [0007], [0014] - [0017]; figures 1-3 *	1-12
X	CN 105172841 A (PENG LAN) 23 December 2015 (2015-12-23) * paragraphs [0034] - [0051] *	1-12
X	WO 2017010245 A1 (HITACHI LTD) 19 January 2017 (2017-01-19) * abstract; figures 1-18 *	1-12
X,P	& DE 112016002222 T5 (HITACHI LTD [JP]) 19 April 2018 (2018-04-19) * paragraphs [0011], [0012], [0024], [0025], [0064] - [0071]; figures 1-18 *	1-12
A	EP 0006310 A1 (WESTINGHOUSE BRAKE & SIGNAL [GB]) 09 January 1980 (1980-01-09) * page 5, line 25 - page 6, line 5 *	1-12
A	DE 102012217291 A1 (SIEMENS AG [DE]) 27 March 2014 (2014-03-27) * paragraphs [0020] - [0022]; figure 2 *	1-12

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 May 2020	Examiner Massalski, Matthias
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CATEGORY OF CITED DOCUMENTS

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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 07-05-2020
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