



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 21 82 19 23

Classification of the application (IPC):
B66C 23/687, B66C 23/693, B66C 23/70

Technical fields searched (IPC):
B66C

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 6206213 B1 (CONRAD FRANK [DE]) 27 March 2001 (2001-03-27)	1, 7
Y	* column 3 - column 6; figures *	4-6
X	DE 202014002187 U1 (TADANO FAUN GMBH [DE]) 26 June 2014 (2014-06-26) * page 4 - page 7 *	1-3
X	EP 3053869 A1 (TADANO LTD [JP]) 10 August 2016 (2016-08-10) * page 4 - page 7; figures *	1
Y	JP S5332548 A (NIPPON GUROOBU KK) 27 March 1978 (1978-03-27) * abstract; figures *	4-6
A	DE 29824867 U1 (DEMAG MOBILE CRANES GMBH & CO [DE]) 06 March 2003 (2003-03-06) * paragraph [0023]; figure 3 *	2, 3

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 18 April 2024	Examiner Popescu, Alexandru
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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 18-04-2024.
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6206213	B1	27-03-2001	DE 10007773 A1 US 6206213 B1	07-12-2000 27-03-2001
DE 202014002187	U1	26-06-2014	NONE	
EP 3053869	A1	10-08-2016	CN 105836637 A EP 3053869 A1 JP 6467959 B2 JP 2016141542 A US 2016221803 A1	10-08-2016 10-08-2016 13-02-2019 08-08-2016 04-08-2016
JP S5332548	A	27-03-1978	NONE	
DE 29824867	U1	06-03-2003	NONE	