



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 21 90 52 11

**Classification of the application (IPC):**  
F15B 1/02, F15B 13/02, F15B 1/027, F15B 20/00

**Technical fields searched (IPC):**  
F15B, B25J, B21B, B21D

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
A	DE 102018205821 A1 (BOSCH GMBH ROBERT [DE]) 17 October 2019 (2019-10-17) * paragraph [0034]; claim 1; figure 1; examples 2,8,4,6 *	1-10
A	DE 3817487 A1 (ASEA BROWN BOVERI [SE]) 15 December 1988 (1988-12-15) * col. 2,ln. 57-67;figures 1,6; examples 1,5,13 *	1-10
A	EP 2301727 B2 (KUKA DEUTSCHLAND GMBH [DE]) 19 December 2018 (2018-12-19) * paragraph [0003]; figures 1,2; examples 13,14,15 *	1

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 23 September 2024	Examiner Deligiannidis, N
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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 23-09-2024  
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			EP	2301727 A1	30-03-2011
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