



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 20 93 78 02

**Classification of the application (IPC):**  
B25J 5/00, B25J 5/02, B25J 5/04, G05D 1/00, B25J 9/16

**Technical fields searched (IPC):**  
B25J, G05D

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2012158178 A1 (HYUNG SEUNG YONG [KR] ET AL) 21 June 2012 (2012-06-21) * paragraph [0003] * * paragraph [0011] * * paragraph [0024] - paragraph [0027] * * paragraph [0046] - paragraph [0048] * * paragraph [0091] * * paragraph [0096] - paragraph [0101] * * figures 1, 2, 9 *	1-15
X	KR 101048098 B1 (KOREA ADVANCED INST SCI & TECH [KR]) 11 July 2011 (2011-07-11) * paragraph [0005] - paragraph [0006] * * paragraph [0017] * * paragraph [0020] - paragraph [0026] * * paragraph [0029] - paragraph [0043] * * paragraph [0054] - paragraph [0055] * * figure 2 *	1-15
A	CN 110262478 A (UNIV ZHEJIANG TECHNOLOGY) 20 September 2019 (2019-09-20) * the whole document *	1-15
A	CN 108326849 A (UNIV ZHEJIANG) 27 July 2018 (2018-07-27) * the whole document *	1-15
A	CN 110253570 A (UNIV ZHEJIANG TECHNOLOGY) 20 September 2019 (2019-09-20) * the whole document *	1-15
A	US 2017241790 A1 (YOSHIKAWA TAIZO [JP]) 24 August 2017 (2017-08-24) * the whole document *	1-15

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 17 January 2024	Examiner Falconi, Riccardo
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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 17-01-2024  
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			US	2017241790 A1	24-08-2017