



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 20 77 39 73

Classification of the application (IPC):
A01K 1/01, A01K 23/00, G05B 15/00, G05B 15/02, G05B 99/00, A01K 29/00

Technical fields searched (IPC):
A01K

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2018303065 A1 (LEE CHANG SUB [KR]) 25 October 2018 (2018-10-25)	1-9, 11, 12
A	* the whole document *	10, 13-15
X	KR 20140074462 A (GONG SUK TAE [KR]) 18 June 2014 (2014-06-18)	1, 3, 5, 7-9, 12
A	* the whole document *	2, 4, 6, 10, 11, 13-15
X,P	CN 109588339 A (SHENZHEN MAOXIAOHAI WEILAI TECH CO LTD) 09 April 2019 (2019-04-09)	1-5, 7-9, 12, 13
A,P	* the whole document *	6, 11, 14, 15
X	KR 20170102122 A (UNIV SUNGKYUNKWAN RES & BUS [KR]) 07 September 2017 (2017-09-07)	5, 6, 12
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A	KR 20160149390 A (LEE MIN SEONG [KR]) 28 December 2016 (2016-12-28)	1-15
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A	US 2014311414 A1 (MORRIS WILLIAM [US]) 23 October 2014 (2014-10-23)	14
	* paragraph [0088] *	

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 02 November 2022	Examiner Millward, Richard
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CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone
 Y: particularly relevant if combined with another document of the same category
 A: technological background
 O: non-written disclosure
 & : member of the same patent family, corresponding document

P: intermediate document
 T: theory or principle underlying the invention
 E: earlier patent document, but published on, or after the filing date
 D: document cited in the application
 L: document cited for other reasons



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 02-11-2022. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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