



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 17 88 51 37

Classification of the application (IPC):
D01F 9/22, D01F 9/32, D06M 10/00

Technical fields searched (IPC):
D06M

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2016130732 A1 (SUZUKI YOSHINORI [JP]) 12 May 2016 (2016-05-12) * paragraphs [0054] - [0060], [0063], [0068], [0070], [0071], [0074], [0076]; figures 1,2A-2D,3 *	1-6
X	JP 2013002767 A (MICRO DENSHI CO LTD; KANTO YAKIN KOGYO CO LTD) 07 January 2013 (2013-01-07) * paragraphs [0032], [0033], [0035], [0054]; figures 1,2 *	1-6
X	JP 2014067575 A (MICRO DENSHI CO LTD; KANTO YAKIN KOGYO CO LTD) 17 April 2014 (2014-04-17) * paragraphs [0011], [0018], [0057]; figures 2,3 *	1-6

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 16 October 2019	Examiner Van Beurden-Hopkins
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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 16-10-2019
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2016130732 A1	12-05-2016	CN 105264129 A	20-01-2016
		EP 3026150 A1	01-06-2016
		HU E041716 T2	28-05-2019
		JP 6063045 B2	18-01-2017
		JP WO2015012349 A1	02-03-2017
		US 2016130732 A1	12-05-2016
		WO 2015012349 A1	29-01-2015
JP 2013002767 A	07-01-2013	BR 102012015109 A2	02-12-2014
		CA 2779933 A1	20-12-2012
		EP 2537966 A1	26-12-2012
		JP 5787289 B2	30-09-2015
		JP 2013002767 A	07-01-2013
		KR 20120140192 A	28-12-2012
		US 2013098904 A1	25-04-2013
JP 2014067575 A	17-04-2014	JP 5877448 B2	08-03-2016
		JP 2014067575 A	17-04-2014