



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 16 88 96 79

Classification of the application (IPC):

H05B 3/06, H05B 3/16, H05B 3/24, H05B 3/34, A45D 20/12, B26F 1/40, F24H 3/04, H01C 3/10, H01C 13/02, H01C 17/00, B26F 1/44, B21D 53/00

Technical fields searched (IPC):

H05B, A45D, F24H, H01C

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	JP S561396 U (NON READABLE) 08 January 1981 (1981-01-08)	1-7
Y	* the whole document *	8-10
X	US 4767914 A (GLUCKSMAN DOV Z [US]) 30 August 1988 (1988-08-30)	1-10
	* abstract *	
	* column 2, line 17 - column 5, line 18 *	
	* figures 1-5 *	
X	US 4066865 A (GODEL SIEGFRIED ET AL) 03 January 1978 (1978-01-03)	1-7
Y	* the whole document *	8-10
X	EP 2884254 A1 (MORPHO DETECTION LLC [US])	1-6
A	17 June 2015 (2015-06-17)	7-10
	* abstract *	
	* paragraph [0010] - paragraph [0012] *	
	* paragraph [0016] - paragraph [0018] *	
	* figures 1-6 *	
X	FR 2749474 A1 (BALAN PHILIPPE [FR]) 05 December 1997 (1997-12-05)	1, 4-6
A	* abstract *	2, 3, 7-10
	* page 3, line 32 - page 4, line 24 *	
	* figures 1-3 *	
Y	US 2015223582 A1 (PEDROARENA CHRISTOPHER LEE [US])	9
A	13 August 2015 (2015-08-13)	1-8, 10
	* abstract; figures 1-5 *	
	* paragraph [0018] - paragraph [0019] *	

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 Munich	Date of completion of the search 23 January 2019	Examiner Chelbosu, Liviu
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CATEGORY OF CITED DOCUMENTS

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Application number:
EP 16 88 96 79

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y	US 2013133218 A1 (HADDEN DAVID M [US]) 30 May 2013 (2013-05-30) * abstract * * paragraph [0040] * * paragraph [0043] * * paragraph [0048] - paragraph [0050] * * paragraph [0069] - paragraph [0076] * * paragraph [0091] * * figures 1-8 *	8, 10

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP S561396	U	08-01-1981	NONE	
US 4767914	A	30-08-1988	EP US	0260371 A2 4767914 A
US 4066865	A	03-01-1978	AU US	1553176 A 4066865 A
EP 2884254	A1	17-06-2015	EP ES US	2884254 A1 2669601 T3 2015163857 A1
FR 2749474	A1	05-12-1997	NONE	
US 2015223582	A1	13-08-2015	US US	2015223582 A1 2017035174 A1
US 2013133218	A1	30-05-2013	US WO	2013133218 A1 2014085022 A1