

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X,D	US 2013/009416 A1 (WENZEL EDWARD J [US] ET AL) 10 January 2013 (2013-01-10) * paragraph [0003] - paragraph [0034]; figures 1-1 *	1-15	INV. D05B1/02 D05B15/00
X	----- US 2013/147228 A1 (FILIPP WILLIAM [US]) 13 June 2013 (2013-06-13) * paragraph [0034] - paragraph [0055]; figures 1-12 *	3-5,7-11	
A	----- US 4 488 498 A (SMITH JACK E [US]) 18 December 1984 (1984-12-18) * column 3, line 38 - column 7, line 2; figures 1-16 *	1,2,6, 12-15	
X	----- US 2015/158115 A1 (DAVIES GORDON [US]) 11 June 2015 (2015-06-11) * paragraph [0010] - paragraph [0020]; figures 1,2 *	3-5, 7-10,15	
A,P	----- US 2 673 537 A (EASTMAN FRED C) 30 March 1954 (1954-03-30) * column 3, line 59 - column 7, line 53; figures 1-14 *	1-15	
A	----- DE 37 03 070 A1 (PROTOS SCHUHMASCHINEN W ULLRIC [DE]) 1 September 1988 (1988-09-01) * column 4, line 10 - column 6, line 60; figures 1-6 *	1-15	
A	----- US 3 055 323 A (MILLER LLOYD G ET AL) 25 September 1962 (1962-09-25) * column 6, line 39 - column 31, line 73; figures 1-68 *	1-15	TECHNICAL FIELDS SEARCHED (IPC) D05B
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 20 July 2017	Examiner Herry-Martin, D
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 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 & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 15 83 0089

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
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20-07-2017

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2013009416 A1	10-01-2013	CN 103649396 A	19-03-2014
		DE 112012002886 T5	27-03-2014
		JP 2014520603 A	25-08-2014
		US 2013009416 A1	10-01-2013
		US 2014306476 A1	16-10-2014
		US 2016159293 A1	09-06-2016
		US 2016160418 A1	09-06-2016
		WO 2013009634 A2	17-01-2013
US 2013147228 A1	13-06-2013	CN 104053577 A	17-09-2014
		DE 112012005161 T5	18-09-2014
		US 2013147228 A1	13-06-2013
		WO 2013086367 A1	13-06-2013
US 4488498 A	18-12-1984	NONE	
US 2015158115 A1	11-06-2015	NONE	
US 2673537 A	30-03-1954	NONE	
DE 3703070 A1	01-09-1988	NONE	
US 3055323 A	25-09-1962	NONE	