

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	US 3 741 686 A (SMITH E) 26 June 1973 (1973-06-26)	1,2,7,8, 10,13-18	INV. F04B47/02
Y	* column 3, line 1 - column 4, line 14; figures 1A, 1B *	3-6,9, 11,12, 19-23	F04B47/04 F04B17/03
Y	----- US 4 836 497 A (BEESON CHARLES F [US]) 6 June 1989 (1989-06-06) * column 3, line 35 - column 4, line 62; figures 3,4 *	6,9,11, 12	
Y	----- US 4 551 072 A (BARALL HEINZ [CA]) 5 November 1985 (1985-11-05) * column 4, line 52 - column 6, line 10; figures 4-7 *	3-5	
Y	----- US 5 027 909 A (CARTER THOMAS J [US] ET AL) 2 July 1991 (1991-07-02) * column 4, line 52 - column 6, line 37; figures 2-4 *	3-5	
Y	----- US 2 551 434 A (EARLE GRAY JAMES ET AL) 1 May 1951 (1951-05-01) * column 2, line 19 - column 4, line 19; figure 1 *	19-23	
			TECHNICAL FIELDS SEARCHED (IPC)
			F04B E21B
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 6 December 2016	Examiner Homan, Peter
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention	
X : particularly relevant if taken alone		E : earlier patent document, but published on, or after the filing date	
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A : technological background		L : document cited for other reasons	
O : non-written disclosure		
P : intermediate document		& : member of the same patent family, corresponding document	

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

EP 07 79 8436

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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06-12-2016

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