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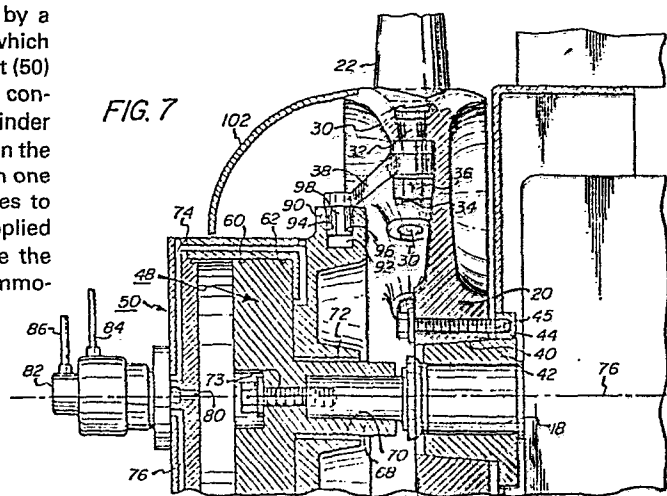
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54 Controllable pitch fans.

57 The pitch of the blades (22) of a fan is adjusted by a pneumatic piston and cylinder combination (48, 50) which rotates with the hub (20) of the fan. The cylinder element (50) is reciprocable axially with respect to the hub and is connected to the blades by a cam groove (92) in the cylinder element, and a plurality of cam followers (98) engaged in the groove for translating axial movement of the cylinder in one or other direction into pivotal movement of the blades to adjust the pitch of the blades. Pneumatic pressure is applied to the piston and cylinder combination to reciprocate the cylinder element (50) via a rotary union (82) which accommodates rotation of the combination.





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## EUROPEAN SEARCH REPORT

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EP 85 30 0531

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	FR-A-1 585 397 (G.C. REDON)  * Figure 1; claim 1 *	1-5, 7, 10, 12	F 04 D 29/36
X	FR-A-1 285 127 (DINGLERWERKE AG)  * Figure 1; claims 1-3 *	1, 3-5, 7, 10, 12	
X	US-A-3 603 698 (C.E. JENSEN)  * Figures 1, 2; column 3, lines 34-48 *	1, 2-6, 8, 10, 12	
X	GB-A-2 077 855 (JAMES HOWDEN AND COMPANY LTD.) * Figure 2; page 1, lines 70-86; page 2, lines 6-14 *	1, 2-6, 10, 12	TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
X	DE-A-2 546 161 (TURBOLUFTTECHNIK GmbH) * Figure 1; page 3, last paragraph; page 4, paragraph 2 *	1-5, 7, 10, 12	F 04 D 29/00
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 15-09-1986	Examiner TEERLING J.H.
<b>CATEGORY OF CITED DOCUMENTS</b>			
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	