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EUROPEAN PATENT APPLICATION

21 Application number: 85303311.6

51 Int. Cl.⁴: **E 05 F 15/02**

22 Date of filing: 10.05.85

30 Priority: 11.05.84 GB 8412147

43 Date of publication of application:
21.11.85 Bulletin 85/47

88 Date of deferred publication of search report: 16.07.86

84 Designated Contracting States:
AT BE CH DE FR GB IT LI LU NL SE

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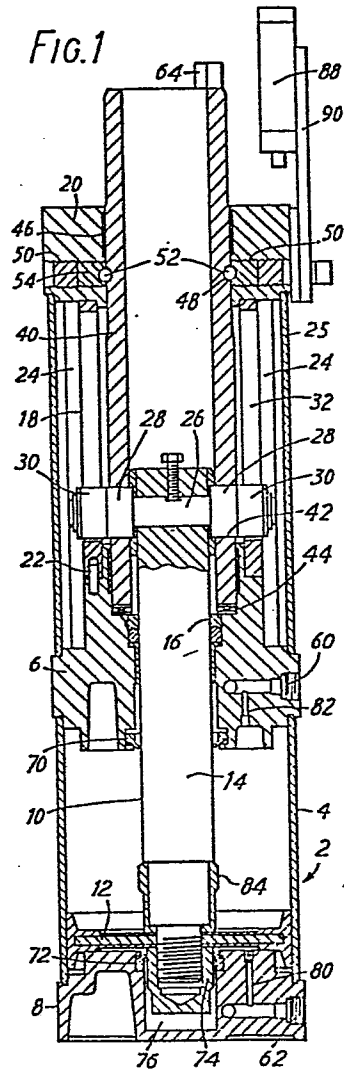
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54 **Fluid pressure actuators.**

57 A fluid pressure actuator has a cylinder (2) comprising a rectilinearly displaceable piston (10) that acts on a drive member (40) to rotate the drive member during a first, greater part of the stroke of the piston and then moves the drive member rectilinearly for the remaining part of the stroke. The rotation is generated by a spiral cam mechanism (26, 42). Further cam means (48, 52, 48) restrain linear displacement of the drive member during the first part of the stroke but permit its rotation to a predetermined angular position and thereafter said further cam means restrain said rotation but permit said linear displacement by the piston. Cushioning means (70, 84) are provided whereby the end of the rotational movement preceding the linear movement are cushioned, but not the linear movement.

FIG. 1





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	GB-A-2 103 709 (VAPOR CORP.) * Figures 1,2,4,6; page 2, lines 8-104 *	1	E 05 F 15/02
A		2,7,8	
A	--- GB-A- 794 062 (PETERS & CO., LTD.) * Figure 1; page 1, line 71 - page 2, line 15 *	9	
A	--- GB-A-2 073 815 (IFE GmbH) -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			E 05 F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18-04-1986	Examiner SCHEIBLING C.D.A.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			