

Title (en)
Rotary fluid pressure actuator.

Title (de)
Druckmittelbetätigter Drehantrieb.

Title (fr)
Dispositif rotatif à pression de fluide.

Publication
EP 0092987 A1 19831102 (EN)

Application
EP 83302288 A 19830422

Priority
ES 264705 U 19820424

Abstract (en)
A mechanism in which the length of the piston strokes as well as the width of the piston plates are substantially increased, whereas the weight of the whole decreases by virtue of the hollow structure of both the pistons, which is provided with vertical walls that in the rear face of the piston plates create a sort of cells for eventually mounting of respective helicoidal springs, whereas in the front face the said walls reinforce the toothed arm that forms a gear with the turning shaft driven by the mechanism, and a diametrically opposed projecting portion that when the piston plates reach the nearest position to each other, staggered engages with the corresponding hollow portion formed in the facing arm, the increasing in the length of the piston strokes being obtained by means of an enlarged slot formed in the front face of the piston plates adapted for including the end of the opposite toothed arm when the pistons reach the said position.

IPC 1-7
F15B 15/06

IPC 8 full level
F15B 15/06 (2006.01); **F15B 15/08** (2006.01)

CPC (source: EP)
F15B 15/065 (2013.01)

Citation (search report)

- GB 816143 A 19590708 - SPRAGUE DEVICES INC
- GB 1285515 A 19720816 - GACHOT JEAN [FR], et al
- US 4167897 A 19790918 - BUNYARD ALAN D
- US 4203351 A 19800520 - SCHWIND HEINZ G [NL]
- EP 0040976 A1 19811202 - WORCESTER CONTROLS UK LTD [GB]
- WO 8001096 A1 19800529 - WIRE MATIC REGLER AB [SE], et al

Cited by
GB2318616B; DE102018218311B3; EP0167497A1; US6170797B1

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DOCDB simple family (publication)
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