

Title (en)
ROTARY PISTON TYPE ACTUATOR WITH HYDRAULIC SUPPLY

Title (de)
ROTATIONSKOLBENAKTUATOR MIT HYDRAULISCHER VERSORGUNG

Title (fr)
ACTIONNEUR DU TYPE À PISTONS ROTATIFS À ALIMENTATION HYDRAULIQUE

Publication
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Application
EP 14736232 A 20140613

Priority

- US 201313921904 A 20130619
- US 201414170434 A 20140131
- US 201414170461 A 20140131
- US 201414258434 A 20140422
- US 2014042257 W 20140613

Abstract (en)
[origin: WO2014204799A1] A rotary actuator with hydraulic supply includes a housing defining a first arcuate chamber (422) comprising a cavity, a fluid port (3722) in fluid communication with the cavity, and an open end. A rotor assembly in the housing includes an output shaft (412) and a rotor arm extending radially outward from the output shaft. An arcuate-shaped piston (414) is disposed in the housing for movement in the arcuate chamber. The rotary actuator includes a fluid line is coupled to the fluid port, a high pressure fluid line (3707), a low pressure fluid line (3709), and a central pressure source (3706) coupled to the high pressure fluid line. A servo valve (3704) is positioned between the central pressure source and the rotary actuator and is controllable to selectively connect the fluid line to the high pressure fluid line and the low pressure fluid line to control movement of the rotary actuator.

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Citation (examination)

- US 2649077 A 19530818 - MEHM JOSEPH A
- US 5044257 A 19910903 - SCOBIE WILLIAM B [US]
- US 5054374 A 19911008 - SCOBIE WILLIAM B [US], et al
- DE 871557 C 19530323 - VON ROLL AG

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WO 2014204799 A1 20141224; BR 112015031898 A2 20170725; BR 112015031898 A8 20191231; CA 2915968 A1 20141224; CN 105723102 A 20160629; CN 105723102 B 20190308; EP 3011190 A1 20160427; EP 3011190 B1 20200311; JP 2016527449 A 20160908

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