

Title (en)

PISTON TYPE ACTUATOR WITH PIN RETENTION FEATURES

Title (de)

KOLBENANTRIEB MIT STIFT-HALTERUNGSMERKMALEN

Title (fr)

ACTIONNEUR DE TYPE À PISTON COMPRENANT ÉLÉMENTS DE RETENUE DE TIGE

Publication

EP 3099941 B1 20200902 (EN)

Application

EP 15703708 A 20150130

Priority

- US 201414170434 A 20140131
- US 2015013737 W 20150130

Abstract (en)

[origin: WO2015116919A1] A rotary actuator includes a housing, a first piston housing assembly comprising a first cavity and an open end, a rotor assembly rotatably journaled in said housing and comprising a rotary output shaft (3310) and a first rotor arm (3312) extending radially outward from the rotary output shaft to a first distal end comprising one or more first retainers (3380, 3382), and an arcuate-shaped first piston (3350) disposed in said housing for reciprocal movement in the first piston housing assembly through the open end along a radius of curvature. A first portion of the first piston connects to the first rotor arm at a first end portion comprising one or more second retainers. The first retainers and the second retainers are intermeshed along the radius of curvature such that movement of the rotor assembly urges movement of the first piston and movement of the first piston urges movement of the rotor assembly.

IPC 8 full level

F15B 15/12 (2006.01)

CPC (source: EP)

F15B 15/125 (2013.01)

Cited by

US11333175B2; WO2021207482A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 2015116919 A1 20150806; BR 112016017729 A2 20170808; CA 2938412 A1 20150806; EP 3099941 A1 20161207; EP 3099941 B1 20200902; JP 2017505888 A 20170223

DOCDB simple family (application)

US 2015013737 W 20150130; BR 112016017729 A 20150130; CA 2938412 A 20150130; EP 15703708 A 20150130; JP 2016549424 A 20150130