

Title (en)

A self-contained electro-hydraulic bidirectional rotary actuator unit

Title (de)

Autonome bidirektionale elektrohydraulische Drehantriebseinheit

Title (fr)

Unité d'actionneur rotatif bidirectionnel électro-hydraulique autonome

Publication

EP 2770218 A2 20140827 (EN)

Application

EP 14156685 A 20140226

Priority

US 201361769363 P 20130226

Abstract (en)

A self-contained electro-hydraulic bidirectional rotary actuator unit (1) adapted for limited arc actuation of an object, e.g. adapted for quarter turn actuation of a valve, e.g. a pipeline valve. The unit comprises a hydraulic rotary actuator with a rack and a pinion meshing with a rack and supported on a rotary shaft (9) in the cylinder housing (2). The unit further comprises a bidirectional hydraulic pump (15) and an electric motor (20) connected to the pump housing and driving the pump.

IPC 8 full level

F15B 15/18 (2006.01); **F15B 1/02** (2006.01)

CPC (source: EP)

F15B 15/18 (2013.01); **F15B 1/025** (2013.01); **F15B 15/065** (2013.01); **F15B 15/24** (2013.01); **F15B 2211/3051** (2013.01); **F15B 2211/3052** (2013.01); **F15B 2211/50518** (2013.01)

Citation (applicant)

US 3605409 A 19710920 - HEESE WILLIAM E, et al

Cited by

US2024052944A1; CN115853931A; CN104500492A; EP3425213A1; CN110753795A; KR20200055688A; RU2755853C2; US10935052B2; US10982743B2; WO2019007815A1; WO2021112750A1; US11384777B2; WO2022148668A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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