

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)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2770218 A2 20140827; EP 2770218 A3 20170426

DOCDB simple family (application)

EP 14156685 A 20140226