

Title (en)
ELECTRO-HYDRAULIC ACTUATOR FOR TURBINE VALVES

Publication
EP 0127027 B1 19880309 (DE)

Application
EP 84105238 A 19840509

Priority
CH 295583 A 19830530

Abstract (en)
[origin: US4589444A] The electro-hydraulic actuator for turbine valves essentially includes a control valve, a rapid action stop valve, a hydraulic supply and an oil supply unit. In order to create a hydraulic actuator for turbine valves which, on the one hand, satisfies the stringent requirements with regard to adjustment force and adjustment speed and, on the other hand, avoids the problems associated with the transmission of hydraulic energy, at least one adjustment valve and at least one rapid action stop valve are allocated per turbine inlet valve. The actuators of these two valves are of the same design and are mutually interchangeable and integrated into a compact actuator unit located on the valve housing. The actuators are connected in pairs to a hydraulic supply located immediately adjacent to the actuators. In addition, the actuators are controlled by a volumetrically controlled oil supply unit integrated with the hydraulic supply, this oil supply unit containing an adjustment pump for controlling the adjustment valve and an auxiliary pump for controlling the rapid action stop valve.

IPC 1-7
F01D 17/14; **F01D 17/26**; **F15B 15/18**

IPC 8 full level
F01D 17/22 (2006.01); **F01D 17/14** (2006.01); **F01D 17/26** (2006.01); **F15B 15/18** (2006.01)

CPC (source: EP US)
F01D 17/145 (2013.01 - EP US); **F01D 17/26** (2013.01 - EP US); **F15B 15/18** (2013.01 - EP US); **Y10T 137/87917** (2015.04 - EP US); **Y10T 137/87981** (2015.04 - EP US)

Cited by
CN103511004A; US5269141A; DE19636746A1; CN109404065A; CN111566357A; EP0419946A1; CH678968A5; US5193779A; EP0451543A1; US5095804A; CH681380A5; EP0462387A1; CH683017A5; DE102014226672B3; CN107109961A; EP0430089A1; US5137253A; EP2204551A1; ITMI20082339A1; US10578227B2; US10400799B2; US10473128B2; US10900375B2; WO2016096222A1; WO2017071912A1; WO2017021080A1; WO2016096221A1

Designated contracting state (EPC)
CH DE FR GB LI SE

DOCDB simple family (publication)
EP 0127027 A1 19841205; **EP 0127027 B1 19880309**; CS 244819 B2 19860814; CS 394484 A2 19850815; DE 3469777 D1 19880414; JP H0472042 B2 19921117; JP S59231108 A 19841225; PL 145034 B1 19880730; PL 247906 A1 19850312; US 4589444 A 19860520; YU 43361 B 19890630; YU 85884 A 19871231

DOCDB simple family (application)
EP 84105238 A 19840509; CS 394484 A 19840525; DE 3469777 T 19840509; JP 10670484 A 19840528; PL 24790684 A 19840529; US 61070884 A 19840516; YU 85884 A 19840517