

Title (en)
A SLIDING VALVE ASSEMBLY

Title (de)
SCHIEBEVENTILANORDNUNG

Title (fr)
ENSEMBLE SOUPAPE COULISSANTE

Publication
EP 2558705 A4 20150225 (EN)

Application
EP 10849946 A 20100415

Priority
US 2010001116 W 20100415

Abstract (en)
[origin: WO2011129799A2] A sliding valve assembly includes a valve body having a fluid conducting port adjacent to a fluid impervious surface. The actuator allows fluid to travel through the valve assembly and into a fluid blocking position where the fluid impervious surface obstructs the fluid from traveling through the valve assembly. First and second sealing assemblies include a primary seal ring, a secondary seal ring around the primary seal ring, and a spring forcing the primary seal ring against a sealing surface. As pressure in the system increases, this pressure is delivered to the sealing assemblies to force them against the sealing surfaces to enhance the sealing relationship. Cams and cam followers affixed to the valve body overcome the frictional forces of the sealing system and the valve body and valve housing to increase the efficiency of the valve assembly and the system in which the valve assembly is used.

IPC 8 full level
F16K 3/00 (2006.01); **F01L 5/02** (2006.01)

CPC (source: EP)
F01L 1/08 (2013.01); **F01L 5/02** (2013.01); **F01L 5/16** (2013.01); **F01L 5/22** (2013.01); **F01L 5/24** (2013.01); **F01L 7/06** (2013.01); **F01L 7/14** (2013.01); **F01L 7/16** (2013.01); **F01L 1/38** (2013.01); **F01L 2305/00** (2020.05); **F02G 2270/90** (2013.01)

Citation (search report)
• [XY] FR 431248 A 19111106 - ALFRED EDOUARD HENRY D ALTON [FR]
• [Y] US 4201174 A 19800506 - VALLEJOS TONY E [US]
• [Y] US 1922678 A 19330815 - HALLETT GEORGE E A
• [Y] US 5003936 A 19910402 - SCHERER PETER [DE]
• [A] GB 246287 A 19260128 - PERCY RILEY
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• See references of WO 2011129799A2

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
WO 2011129799 A2 20111020; WO 2011129799 A3 20140403; CN 103237980 A 20130807; CN 103237980 B 20160309;
EP 2558705 A2 20130220; EP 2558705 A4 20150225; EP 2558705 B1 20160713; JP 2013533410 A 20130822; JP 5748241 B2 20150715

DOCDB simple family (application)
US 2010001116 W 20100415; CN 201080067381 A 20100415; EP 10849946 A 20100415; JP 2013504869 A 20100415