

Title (en)
VALVES BASED ON REVERSIBLE PIEZOELECTRIC ROTARY MOTOR

Title (de)
AUF REVERSIERBAREM PIEZOELEKTRISCHEM DREHMOTOR BASIERENDE VENTILE

Title (fr)
VALVES UTILISANT UN MOTEUR ROTATIF PIÉZOÉLECTRIQUE RÉVERSIBLE

Publication
EP 2394081 A4 20170920 (EN)

Application
EP 10739222 A 20100208

Priority
• US 2010023470 W 20100208
• US 15070309 P 20090206
• US 63923209 A 20091216

Abstract (en)
[origin: WO2010091343A2] A piezoelectric valve is provided that includes a valve body includes a plug and a drive body coupled to the valve body and operable to cause the rotatable plug to rotate about a rotational axis. The drive body includes a shaft disposed along the axis, the shaft statically coupled to the plug and rotatably coupled to the drive body. The drive body also includes a rotor assembly disposed about the axis and rotatably coupled to the drive body. The drive body further includes a first piezoelectric actuator disposed about the axis and statically coupled to the drive body, the first piezoelectric actuator configured to frictionally engage an inner surface of the rotor assembly. The drive body additionally includes a second piezoelectric actuator disposed about the axis and statically coupled to the shaft, the second piezoelectric actuator configured to frictionally engage the inner surface of the rotor assembly.

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Citation (search report)
• [I] WO 2007064310 A1 20070607 - PETRENKO SERHIY FEDOROVICH [UA]
• [A] US 6100624 A 20000808 - YAMANISHI TAKAHIRO [JP]
• See references of WO 2010091343A2

Citation (examination)
US 2005012433 A1 20050120 - BRADY KEVIN [CA], et al

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