

Title (en)

FORCE-EQUALIZATION STATIONARY-COIL ACTUATOR FOR FLUID MOVERS

Title (de)

STATIONÄRER SPULENKRAFTAUSGLEICHSBETÄTIGER FÜR FLÜSSIGKEITSBEWEGUNGSVORRICHTUNGEN

Title (fr)

ACTIONNEUR À BOBINE FIXE ET À ÉGALISATION D'EFFORT POUR DISPOSITIFS DE DÉPLACEMENT DE FLUIDE

Publication

EP 2625434 A2 20130814 (EN)

Application

EP 11831649 A 20111007

Priority

- US 39152410 P 20101008
- US 2011055196 W 20111007

Abstract (en)

[origin: WO2012048179A2] A fluid mover includes a first dynamic armature attached to a flexible member and a second dynamic armature attached to a second flexible member. The fluid mover also includes a housing and first and second flexible members being attached to the housing so as to form a fluid chamber volume bounded by the housing and first and second flexible members. A stationary current carrying coil positioned between first and second armatures. The current carried by the coil generates a magnetic force acting on the armatures and wherein coil and armatures are positioned and configured so as to ensure that the instantaneous magnetic force experienced by the two armatures will always be identical regardless of the relative positions of the armatures and regardless of the time varying properties of the current.

IPC 8 full level

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