

Title (en)
Membrane actuator and method for manufacturing a membrane actuator

Title (de)
Membranantrieb und Verfahren zum Herstellen eines Membranantriebs

Title (fr)
Actionneur à membrane et procédé de fabrication d'un actionneur membrane

Publication
EP 2028377 B1 20120620 (DE)

Application
EP 08010492 A 20080610

Priority
• DE 102007059922 A 20071203
• DE 102007039395 A 20070821

Abstract (en)
[origin: EP2028377A2] The actuator (10) has a diaphragm (22) tightly connected with housing (20) containing a chamber (24) e.g. low pressure chamber, at radial outer area (32). The diaphragm is supported on a diaphragm plate (30). The radial outer area of the diaphragm rests at an inner side of a sleeve (38) in a molded and welded manner, where the sleeve is tightly fixed at the housing. The outer area is pressed at the inner side of the sleeve. The diaphragm is made of plastic, fabric-reinforced elastomer or stainless steel foil. A radial outer edge of the diaphragm is designed as a sealing lip. An independent claim is also included for a method for manufacturing a diaphragm actuator.

IPC 8 full level
F15B 15/10 (2006.01)

CPC (source: EP)
F15B 15/10 (2013.01)

Cited by
DE102016212548A1; DE102016212548B4; WO2018010886A1; CN109642594A; DE102013016350B3; CN105408640A; DE102014119387B4; CN109416061A; DE102014220743A1; US10753378B2; WO2015049038A1; WO2018010760A1; EP3037702A1; DE102014119387A1; US9909681B2; US10697478B2

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