

Title (en)
MICRODIAPHRAGM PUMP

Title (de)
MIKROMEMBRANPUMPE

Title (fr)
POMPE À MICRODIAPHRAGME

Publication
EP 2762725 A4 20150610 (EN)

Application
EP 11873526 A 20110927

Priority
JP 2011072056 W 20110927

Abstract (en)
[origin: EP2762725A1] A microdiaphragm pump having a diaphragm chamber in contact with one side of an intake valve and one side of a discharge valve. The microdiaphragm includes two valve plate sheets 12, in each of which a valve plate 14 of one of an intake valve 26 and a discharge valve 28 and a flow path aperture 16 that provides a passage of the other valve are formed and which are laminated in directions that are opposite from each other; two valve seat sheets 18, which are laminated to the laminate and in which valve seats 20 and valve stoppers 22 are formed; a base plate 32; a frame 34; a diaphragm 36; and a drive element 42. The microdiaphragm pump has extremely small external dimensions and provides high productivity, high flow control accuracy, a smooth operation, large suction and discharge forces, and high reliability.

IPC 8 full level
F04B 43/04 (2006.01)

CPC (source: EP KR US)
F04B 43/043 (2013.01 - KR); **F04B 43/046** (2013.01 - EP US); **F04B 43/073** (2013.01 - KR); **F04B 53/10** (2013.01 - KR); **F04B 53/16** (2013.01 - KR); **F05B 2210/11** (2013.01 - KR)

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• [A] NGUYEN N-T ET AL: "A fully polymeric micropump with piezoelectric actuator", SENSORS AND ACTUATORS B: CHEMICAL: INTERNATIONAL JOURNAL DEVOTED TO RESEARCH AND DEVELOPMENT OF PHYSICAL AND CHEMICAL TRANSDUCERS, ELSEVIER S.A, CH, vol. 97, no. 1, 5 June 2003 (2003-06-05), pages 137 - 143, XP004483107, ISSN: 0925-4005, DOI: 10.1016/S0925-4005(03)00521-5
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DOCDB simple family (publication)
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