

Title (en)

DIAPHRAGM PUMP WITH CIRCULATION SCAVENGING

Publication

EP 0191936 B1 19900307 (DE)

Application

EP 85116076 A 19851217

Priority

DE 3446952 A 19841221

Abstract (en)

[origin: US4832581A] In a diaphragm pump with a diaphragm that separates a delivery chamber from a work-chamber filled entirely with fluid medium, and with a piston chamber which is connected to the diaphragm work-chamber by way of at least two passages and in which a displacement piston is reciprocatingly movable to effect the oscillatory actuation of the diaphragm, with the passages for flushing out gas bubbles shaped in such a manner that the mean velocity of flow in each single passage is always aimed in one stroke direction. The arrangement and shape of the passages connecting the work-chamber with the piston chamber is provided here in such a manner that the total resistance to flow of all the passages, made up of the parallel resistances of the individual passages, is different in one direction of flow than that in the other direction of flow, and that thereby there results in all passages a total transport flow for any gas bubbles contained in the fluid medium.

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F04B 43/06

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CPC (source: EP US)

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