

Title (en)
DIAPHRAGM PUMP AND PRESSURE REGULATING APPARATUS

Title (de)
MEMBRANPUMPE UND DRUCKREGELVORRICHTUNG

Title (fr)
POMPE À MEMBRANE ET APPAREIL DE RÉGULATION DE PRESSION

Publication
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Application
EP 23209763 A 20210212

Priority

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- JP 2020043931 A 20200313
- EP 21156792 A 20210212

Abstract (en)

A diaphragm pump includes a fluid inlet, a fluid discharge port, and a fluid exhaust port that are open to outside of the diaphragm pump. The diaphragm pump further includes a pump chamber formed by a diaphragm, a suction passage that makes the pump chamber communicate with the fluid inlet; a suction valve that opens/closes the suction passage; a discharge passage that makes the pump chamber communicate with the fluid discharge port; a discharge valve that opens/closes the discharge passage; and an exhaust passage that makes the discharge passage communicate with the fluid exhaust port.

IPC 8 full level
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F04B 49/20 (2013.01 - CN); **F04B 49/22** (2013.01 - CN)

Citation (search report)

- [A] EP 3006738 A1 20160413 - OKEN SEIKO CO LTD [JP]
- [A] EP 2985465 A1 20160217 - OKEN SEIKO CO LTD [JP]
- [A] JP 2012172577 A 20120910 - OKEN LTD
- [AP] EP 3660309 A1 20200603 - OKEN SEIKO CO LTD [JP]

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EP 3879102 A1 20210915; EP 3879102 B1 20231206; CN 113389716 A 20210914; CN 113389716 B 20230106; EP 4296513 A2 20231227;
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EP 21156792 A 20210212; CN 202110266651 A 20210311; EP 23209763 A 20210212; US 202117184670 A 20210225;
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