

Title (en)
MICROBLOWER

Title (de)
MIKROGEBLÄSE

Title (fr)
MICROSOUFFLANTE

Publication
EP 3841303 A1 20210630 (DE)

Application
EP 19783618 A 20190823

Priority
• DE 102018120782 A 20180824
• IB 2019057118 W 20190823

Abstract (en)
[origin: WO2020039399A1] A micropump comprises: a momentum unit (10) having a piezo actuator (11) which is arranged on a vibrating diaphragm (12); a vibrating plate (15) which is arranged opposite the vibrating diaphragm (12) and has a blower opening (16); and a wall arranged between the vibrating diaphragm (12) and the vibrating plate (15), such that a blower chamber (13) is formed; and a housing (20), in which the momentum unit (10) is mounted, having an intake opening (24), and an outlet opening (25), which is opposite the blower opening (16). The housing (2) forms a closed space (H), and has at least one intake opening (24), which is arranged radially or on an underside opposite the momentum unit (10) and has an intake channel, leading into a pump chamber (26) situated between the vibrating plate (15) and the housing inner side. The invention also relates to the use of the micropump according to the invention.

IPC 8 full level
F04B 43/04 (2006.01)

CPC (source: EP US)
F04B 43/0027 (2013.01 - US); **F04B 43/046** (2013.01 - EP US); **F04B 45/043** (2013.01 - US); **F04B 45/047** (2013.01 - EP US);
F04B 53/16 (2013.01 - US)

Citation (search report)
See references of WO 2020039399A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102018120782 B3 20190822; EP 3841303 A1 20210630; EP 3841303 B1 20230726; EP 3841303 C0 20230726; JP 2021535323 A 20211216;
US 11434893 B2 20220906; US 2021199106 A1 20210701; WO 2020039399 A1 20200227

DOCDB simple family (application)
DE 102018120782 A 20180824; EP 19783618 A 20190823; IB 2019057118 W 20190823; JP 2021534837 A 20190823;
US 201917271142 A 20190823