

Title (en)

Diaphragm delivery pump and pumping diaphragm for a diaphragm delivery pump

Title (de)

Membranförderungspumpe und Pumpmembran für eine Membranförderungspumpe

Title (fr)

Pompe d'administration à diaphragme et diaphragme de pompe pour pompe d'administration à diaphragme

Publication

**EP 1959140 A1 20080820 (EN)**

Application

**EP 08001765 A 20080131**

Priority

DE 102007007906 A 20070214

Abstract (en)

A delivery pump for a delivery fluid comprises at least one valve plate (4), at least one actuatable pumping diaphragm (3) attached to the at least one valve plate (4) in a fluid-tight manner for delivering the delivery fluid, said pumping diaphragm (3) defining at least one pumping chamber (2) together with the at least one valve plate (4) and having at least one free fold (16), extending over at least one circumferential area of the at least one pumping diaphragm (3), for changing the volume of the at least one pumping chamber (2), at least one inlet opening (7) disposed in the at least one valve plate (4) for guiding the delivery fluid into the at least one pumping chamber (2), and at least one outlet opening (8) disposed in the at least one valve plate (4) for guiding the delivery fluid out of the at least one pumping chamber (2).

IPC 8 full level

**F04B 43/02** (2006.01); **F04B 43/08** (2006.01)

CPC (source: EP US)

**F04B 43/02** (2013.01 - EP US); **F04B 43/08** (2013.01 - EP US); **F04B 43/084** (2013.01 - EP US)

Citation (applicant)

- DE 3718967 A1 19871210 - OKEN SEIKO KK [JP]
- EP 0188730 A2 19860730 - OTT KG LEWA [DE]
- US 4480969 A 19841106 - CREDLE JR WILLIAM S [US]
- GB 801263 A 19580910 - GEORGE WILLIAM WEBB, et al
- US 5092567 A 19920303 - WANG JOHN [TW]
- US 4585397 A 19860429 - CRAWFORD ROY P [US], et al

Citation (search report)

- [X] DE 3718967 A1 19871210 - OKEN SEIKO KK [JP]
- [X] EP 0188730 A2 19860730 - OTT KG LEWA [DE]
- [XY] US 4480969 A 19841106 - CREDLE JR WILLIAM S [US]
- [XY] GB 801263 A 19580910 - GEORGE WILLIAM WEBB, et al
- [XY] US 5092567 A 19920303 - WANG JOHN [TW]
- [Y] US 4585397 A 19860429 - CRAWFORD ROY P [US], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 1959140 A1 20080820**; CN 101245775 A 20080820; DE 102007007906 A1 20080821; JP 2008196493 A 20080828; US 2008190285 A1 20080814

DOCDB simple family (application)

**EP 08001765 A 20080131**; CN 200810008245 A 20080214; DE 102007007906 A 20070214; JP 2008033658 A 20080214; US 2290708 A 20080130