

Title (en)

SYSTEM AND METHOD FOR DELIVERING FINE-GRAIN POWDER WITH THE AID OF A DIAPHRAGM PUMP

Title (de)

SYSTEM UND VERFAHREN ZUM FÖRDERN VON FEINKÖRNIGEN PULVER MIT HILFE EINER MEMBRANPUMPE

Title (fr)

SYSTÈME ET PROCÉDÉ DE TRANSPORT DE POUDRE FINE À L'AIDE D'UNE POMPE À MEMBRANE

Publication

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Application

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Abstract (en)

[origin: WO2012139898A1] The invention relates to a diaphragm pump having a delivery space which encloses a working volume, at least one deflectable diaphragm which can be moved into a suction position and a pump position, an inlet valve arranged on a suction side of the diaphragm pump and an outlet valve arranged on the pressure side of the diaphragm pump. In order to make it possible to deliver fine-grain powder, in particular also non-flowable powders having particle sizes of 0.01 µm to 100 µm, using a diaphragm pump, it is proposed that a gas feed for introducing a gas into the delivery space be arranged at the delivery space. In addition, the invention relates to a method for delivering fine-grain powder.

IPC 8 full level

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Citation (examination)

- EP 1437178 A2 20040714 - ITW GEMA AG [CH]
- US 6447216 B1 20020910 - HIGUCHI FUMII [CA], et al
- DE 10353968 A1 20050707 - ITW GEMA AG [CH]

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