

Title (en)  
Enclosed dosing pump

Title (de)  
Als Kapselpumpe ausgebildete Dosierpumpe

Title (fr)  
Pompe doseuse encapsulée

Publication  
**EP 0758053 A1 19970212 (DE)**

Application  
**EP 96112488 A 19960802**

Priority  
DE 29512694 U 19950807

Abstract (en)  
The capsule is formed by a rigid wall (1,8) contg. the inlet and outlet (11,12) and a moving one formed by a diaphragm (13). Diaphragm movement is by an actuating member (17) and it reciprocates between a domed position, in which capsule volume is minimal and a retracted one where it is maximal. The rigid wall has a concave surface, against which the diaphragm bears over its entire surface in the domed position. A pneumatic system generates pressure in the chamber behind the diaphragm with this in the domed position with each stroke, and releases it on the return stroke.

Abstract (de)  
Dosierpumpe in Form einer Kapselpumpe mit einer starren Kapselwand (1, 8) und darin gebildetem Einlaß (11) und Auslaß (12), und einer beweglichen Kapselmembran (13), wobei eine Pneumatikeinrichtung beim Ausstoßhub den Raum hinter der Kapselmembran druckbeaufschlagt.  
<IMAGE>

IPC 1-7  
**F04B 43/06**; **F04B 43/00**

IPC 8 full level  
**F04B 43/00** (2006.01); **F04B 43/06** (2006.01)

CPC (source: EP US)  
**F04B 43/0063** (2013.01 - EP US); **F04B 43/06** (2013.01 - EP US)

Citation (search report)

- [X] US 3672791 A 19720627 - ZIMMERLY ROBERT D
- [X] FR 2146019 A5 19730223 - DORR OLIVER INC, et al
- [A] DE 1767453 A1 19710916 - PETROCARB INC
- [A] EP 0536818 A1 19930414 - NUOVO PIGNONE SPA [IT], et al
- [A] FR 2466640 A1 19810410 - ROSER ERICH [DE]

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EP0969208A1; FR2780451A1; US6267568B1

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)  
**US 5782617 A 19980721**; AT E185402 T1 19991015; DE 29512694 U1 19951019; DE 29612987 U1 19961010; DE 59603272 D1 19991111; EP 0758053 A1 19970212; EP 0758053 B1 19991006

DOCDB simple family (application)  
**US 69258696 A 19960806**; AT 96112488 T 19960802; DE 29512694 U 19950807; DE 29612987 U 19960726; DE 59603272 T 19960802; EP 96112488 A 19960802