

Title (en)
DEVICE FOR PUMPING THICK OR TURBULENCE-SENSITIVE PRODUCTS

Title (de)
EINRICHTUNG ZUR FÖRDERUNG VON ZÄHEN ODER TURBULENZEMPFINDLICHEN FLÜSSIGKEITEN

Title (fr)
DISPOSITIF DE POMPAGE POUR PRODUITS LIQUIDES PATEUX OU SENSIBLES A LA TURBULENCE

Publication
EP 1339986 A1 20030903 (FR)

Application
EP 01999749 A 20011203

Priority
• FR 0103813 W 20011203
• FR 0015650 A 20001204

Abstract (en)
[origin: WO0246612A1] The invention concerns a device for pumping pasty liquid or sensitive products, comprising a double-action reciprocating pump. It comprises n pumps (n being not less than 2) whereof the displacements of the pistons are offset relative to one another by 1/n phase. The device comprises a programming unit (9), or means regulating the driving means (7), designed to control speed variation of the driving means (7) so as to smooth out the pressure variations of the total delivery of the n pumps (1a, 1b, , 1n) and/or to compensate the consumption variations downstream of the pasty liquid or sensitive products.

IPC 1-7
F04B 11/00; F04B 9/02

IPC 8 full level
F04B 9/02 (2006.01); **F04B 11/00** (2006.01)

CPC (source: EP)
F04B 9/02 (2013.01); **F04B 11/005** (2013.01); **F04B 2203/0209** (2013.01); **F04B 2205/01** (2013.01); **F04B 2205/05** (2013.01)

Citation (search report)
See references of WO 0246612A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0246612 A1 20020613; AU 1615902 A 20020618; EP 1339986 A1 20030903; FR 2817594 A1 20020607; FR 2817594 B1 20050701

DOCDB simple family (application)
FR 0103813 W 20011203; AU 1615902 A 20011203; EP 01999749 A 20011203; FR 0015650 A 20001204