

Title (en)
THICK MATTER PUMP

Title (de)
DICKSTOFFPUMPE

Title (fr)
POMPE A LIQUIDES EPAIS

Publication
EP 1235982 A1 20020904 (DE)

Application
EP 00987322 A 20001129

Priority
• DE 19957337 A 19991129
• EP 0011966 W 20001129

Abstract (en)
[origin: DE19957337A1] The pump has at least two pump units (1,2) that alternately suck and pump, a feed line, a suction line and a changeover valve (11) for changing over between pump units, whereby a pumping pump unit is connected to the feed line and a sucking pump unit is connected to the suction line. A charging pressure device (17) separate from the pump unit near the suction line actively causes compression of the viscous material. Independent claims are also included for the following: a suction/pumping method for viscous material.

IPC 1-7
F04B 15/02; **F04B 7/00**

IPC 8 full level
F04B 7/00 (2006.01); **F04B 15/02** (2006.01)

CPC (source: EP US)
F04B 7/0026 (2013.01 - EP US); **F04B 15/023** (2013.01 - EP US); **Y10S 417/90** (2013.01 - EP US)

Citation (search report)
See references of WO 0140649A1

Cited by
DE102012107933B4; DE102009008517B4; DE102009008517A1; DE102012107933A1; WO2016181405A1

Designated contracting state (EPC)
DE ES FR IT

DOCDB simple family (publication)
DE 19957337 A1 20010531; AU 2361001 A 20010612; CN 1298996 C 20070207; CN 1433506 A 20030730; DE 50012582 D1 20060524; EP 1235982 A1 20020904; EP 1235982 B1 20060412; ES 2262556 T3 20061201; US 2003143089 A1 20030731; US 6793467 B2 20040921; WO 0140649 A1 20010607

DOCDB simple family (application)
DE 19957337 A 19991129; AU 2361001 A 20001129; CN 00818707 A 20001129; DE 50012582 T 20001129; EP 0011966 W 20001129; EP 00987322 A 20001129; ES 00987322 T 20001129; US 12995302 A 20021001