

Title (en)
ELECTROMAGNETIC RECIPROCATING-PISTON PUMP

Publication
EP 0211314 B1 19881102 (DE)

Application
EP 86110045 A 19860722

Priority
LU 86015 A 19850723

Abstract (en)
[origin: EP0211314A1] 1. An electromagnetic reciprocating piston pump, in which a reciprocating piston is moved to and from in a cylindrical tube made of non-magnetic material by means of at least one coil arranged on the outside of the cylindrical tube, and in which electromagnetically actuated valves periodically close the inlets and outlets, characterized in that three straight cylindrical tubes (1, 2, 3) are arranged parallel to one another between two collectors (4, 5), each tube containing a reciprocating piston (6, 7, 8) which is at least partially made of soft iron, and carrying outer coils (12 to 17) for moving the piston, and in that two of these cylindrical tubes (2, 3) are each provided, in the central zone between the collectors, with a connection piece (18, 19) which acts as an inlet or outlet respectively, wherein the pistons in these cylindrical tubes, the so-called valve pistons, depending on their position, either close the connection piece or put it in communication with one collector or the other.

IPC 1-7
F04B 17/04; **F04B 7/00**

IPC 8 full level
F04B 7/00 (2006.01); **F04B 17/04** (2006.01)

CPC (source: EP)
F04B 7/0076 (2013.01); **F04B 17/044** (2013.01)

Cited by
DE19982891B4; WO0039460A1

Designated contracting state (EPC)
BE DE FR GB IT LU NL

DOCDB simple family (publication)
LU 86015 A1 19860804; DE 3661098 D1 19881208; DK 345086 A 19870124; DK 345086 D0 19860721; EP 0211314 A1 19870225; EP 0211314 B1 19881102; ES 2019709 A6 19910701; IE 57248 B1 19920617; IE 861945 L 19870123; PT 83046 A 19860801; PT 83046 B 19920831

DOCDB simple family (application)
LU 86015 A 19850723; DE 3661098 T 19860722; DK 345086 A 19860721; EP 86110045 A 19860722; ES 8600456 A 19860722; IE 194586 A 19860722; PT 8304686 A 19860723