

Title (en)
PUMP FOR FLUID INCLUDING LIQUIFIED GAS

Publication
EP 0294322 A3 19900228 (DE)

Application
EP 88810290 A 19880504

Priority
CH 192387 A 19870519

Abstract (en)
[origin: EP0294322A2] The pump has an inlet and an outlet for the fluid to be pumped as well as a housing (11) which contains an elongated internal chamber (31) which is defined at one end by an end section (17) and in which a piston (35) is displaceably guided. The inlet is connected via a first non-return valve (63) to the pump chamber (33) located between the end section (17) and the piston (35), which chamber in turn is connected via a second non-return valve (71) to the outlet. The piston (35) is fitted with a third non-return valve (99), which additionally connects the inlet to the pump chamber (33) and during the intake cycles, particularly in their initial phases, allows pressure drops, which in the pump chamber (33) might cause liquid fluid to be converted into gaseous fluid, to be largely avoided. <IMAGE>

IPC 1-7
F04B 37/08

IPC 8 full level
F04B 15/06 (2006.01); **F04B 39/00** (2006.01)

CPC (source: EP US)
F04B 15/06 (2013.01 - EP US); **F04B 39/0016** (2013.01 - EP US)

Citation (search report)
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DE19747636B4; CN110425106A; EP0730092A1; EP0628723A1; FR2706540A1

Designated contracting state (EPC)
DE FR GB IT

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EP 0294322 A2 19881207; **EP 0294322 A3 19900228**; **EP 0294322 B1 19930127**; CH 672354 A5 19891115; DE 3877832 D1 19930311; US 4915602 A 19900410

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