

Title (en)

Controlled replenishment device for high pressure membrane pumps

Title (de)

Gesteuerte Schnüffelbehinderung für Hochdruck-Membranpumpen

Title (fr)

Dispositif de supplément contrôlé pour des pompes à membrane et à haute pression

Publication

**EP 0688954 B1 19980610 (DE)**

Application

**EP 95103877 A 19950316**

Priority

DE 4420863 A 19940615

Abstract (en)

[origin: EP0688954A1] An obstruction is formed by an oscillating piston (8), which acts upon a pump membrane (1) by hydraulic fluid. A spring loaded relief valve prevents excessive suction, by permitting hydraulic fluid to flow from the supply volume (9) to the pressurised volume (7). The piston acts as a control slide, releasing the connection to the relief valve only after at least part of the suction stroke has been completed. The connection may be released if the piston has completed approximately half of its stroke, or may be kept closed for at least the start of the stroke.  
<IMAGE>

IPC 1-7

**F04B 43/067**

IPC 8 full level

**F04B 43/067** (2006.01)

CPC (source: EP US)

**F04B 43/067** (2013.01 - EP US)

Cited by

DE102014010108A1; CN111828331A; DE102014010108B4

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**DE 4420863 A1 19951221; DE 4420863 C2 19980514;** DE 59502465 D1 19980716; EP 0688954 A1 19951227; EP 0688954 B1 19980610; JP H084656 A 19960109; US 5655894 A 19970812

DOCDB simple family (application)

**DE 4420863 A 19940615;** DE 59502465 T 19950316; EP 95103877 A 19950316; JP 14788095 A 19950614; US 44241195 A 19950516