

Title (en)

Hydraulic piston pump with inlet valves

Title (de)

Hydraulische Kolbenpumpe mit Einlassventilen

Title (fr)

Pompe hydraulique à pistons munis de clapets d'aspiration

Publication

**EP 0558389 B1 19960110 (FR)**

Application

**EP 93400434 A 19930219**

Priority

- FR 9202334 A 19920228
- FR 9206827 A 19920605

Abstract (en)

[origin: US5354181A] Hydraulic piston pump driven in an alternating reciprocating motion by bearing, through a stud, against a cam carried by a drive shaft, characterized by the fact that a device acting as non-return feed valve is incorporated in each piston (14) while the discharge pressure is permanently re-injected into the interior of the stud (17) by which said stud (17) takes support on said cam (6).

IPC 1-7

**F04B 53/00**; **F04B 1/14**

IPC 8 full level

**F04B 1/14** (2006.01); **F04B 53/12** (2006.01)

CPC (source: EP US)

**F04B 1/14** (2013.01 - EP US); **F04B 53/122** (2013.01 - EP US); **F04B 53/125** (2013.01 - EP US)

Cited by

CN110748468A; CN106089677A; US2015110656A1; DE19708922B4; CN114893375A; JP2023039411A

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

**US 5354181 A 19941011**; AT E132942 T1 19960115; CA 2090715 A1 19930829; DE 69301254 D1 19960222; DE 69301254 T2 19960822; EP 0558389 A1 19930901; EP 0558389 B1 19960110; ES 2085120 T3 19960516

DOCDB simple family (application)

**US 2395193 A 19930226**; AT 93400434 T 19930219; CA 2090715 A 19930223; DE 69301254 T 19930219; EP 93400434 A 19930219; ES 93400434 T 19930219