

Title (en)  
HYDRAULIC PISTON MACHINE.

Title (de)  
HYDRAULISCHE KOLBENMASCHINE.

Title (fr)  
MACHINE HYDRAULIQUE A PISTONS.

Publication  
**EP 0679227 A1 19951102 (EN)**

Application  
**EP 94904992 A 19940106**

Priority  
• DE 4301135 A 19930118  
• DK 9400009 W 19940106

Abstract (en)  
[origin: WO9416220A1] A hydraulic piston machine is disclosed, with a cylinder body (1) and a control counter-plate (4) which engage one another via the intermediary of a control surface, the cylinder body having at least one cylinder which emerges by way of an opening (2) into the control surface, and the control counter-plate (4) has a high-pressure channel (6) and a low-pressure channel (5) which are connected to a high-pressure connection and a low-pressure connection (7) respectively and, upon movement of cylinder body (1) and control counter-plate (4) relative to one another, are passed over by the opening (2), the low-pressure channel (5) having a groove (9) at its end passed over first by the opening (2). It is desirable to be able to operate a machine of that kind also with a hydraulic fluid that has a relatively low viscosity. For that purpose, the groove (9), together with the opening (2), produces a directed jet (12) at least immediately after the start of their overlap.

IPC 1-7  
**F04B 1/20**

IPC 8 full level  
**F04B 1/20** (2006.01)

CPC (source: EP)  
**F04B 1/2021** (2013.01); **F04B 1/2042** (2013.01); **F05C 2225/04** (2013.01); **F05C 2253/12** (2013.01)

Citation (search report)  
See references of WO 9416220A1

Cited by  
EP3056730A1; US10436184B2

Designated contracting state (EPC)  
DK FR GB IT

DOCDB simple family (publication)  
**DE 4301135 A1 19940721**; **DE 4301135 C2 19950406**; AU 5879794 A 19940815; EP 0679227 A1 19951102; EP 0679227 B1 19970416; WO 9416220 A1 19940721

DOCDB simple family (application)  
**DE 4301135 A 19930118**; AU 5879794 A 19940106; DK 9400009 W 19940106; EP 94904992 A 19940106