

Title (en)

Hydraulic pump with axial pistons which can operate in both directions of rotation

Title (de)

Hydraulische Pumpe mit Axialkolben, die in beide Drehrichtungen funktionieren

Title (fr)

Pompe hydraulique a pistons axiaux pouvant fonctionner dans les deux sens de rotation

Publication

**EP 2679818 B1 20141224 (FR)**

Application

**EP 13172383 A 20130618**

Priority

FR 1256159 A 20120628

Abstract (en)

[origin: EP2679818A1] The pump has a rotating barrel (20) bearing pistons (30) applied against a valve plate (80) provided with two symmetrical and opposed drillings (70, 70'). The drillings are connected to output openings (10, 11) of the pump, respectively. One of the drillings is interdependent to a staged double piston having two sections (81, 82) of equal surfaces. The surfaces are connected with the output openings such that the valve plate is always applied against the rotating barrel bearing the pistons by discharge pressure in any rotating direction of the pump.

IPC 8 full level

**F04B 1/22** (2006.01)

CPC (source: EP US)

**F04B 1/2007** (2013.01 - US); **F04B 1/2021** (2013.01 - EP US); **F04B 1/2035** (2013.01 - EP US); **F04B 1/2042** (2013.01 - EP US)

Cited by

US2017342970A1; US10408197B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 2679818 A1 20140101**; **EP 2679818 B1 20141224**; FR 2992691 A1 20140103; FR 2992691 B1 20140718; US 2014003970 A1 20140102

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**EP 13172383 A 20130618**; FR 1256159 A 20120628; US 201313924014 A 20130621