

Title (en)
PISTON HYDRAULIC DEVICE

Title (de)
HYDRAULISCHE KOLBENVORRICHTUNG

Title (fr)
DISPOSITIF HYDRAULIQUE À PISTON

Publication
EP 3591224 A1 20200108 (EN)

Application
EP 18425052 A 20180705

Priority
EP 18425052 A 20180705

Abstract (en)
The piston hydraulic device comprises a cylinder block having a plurality of cylinder assemblies, having a cylinder and a piston, and being rotatable about a first rotation axis. A port plate has a first port and a second port. A plurality of first conduits connect a respective cylinder alternately to the first port or the second port relative to the angular position of the cylinder assembly about the first rotation axis. At least one second conduit connects between at least one first conduit and an accumulator. At least one directional system fluidly connects to at least one first conduit and to the at least one second conduit. The at least one directional system is configured to convey return fluid from the cylinder assembly to the port plate in a first operative condition and to divert return fluid from the cylinder assembly to the accumulator in a second operative condition.

IPC 8 full level
F04B 1/20 (2006.01); **F03C 1/06** (2006.01); **F03C 1/32** (2006.01); **F03C 1/40** (2006.01); **F04B 1/30** (2006.01); **F04B 1/32** (2006.01); **F04B 23/02** (2006.01)

CPC (source: EP US)
F03C 1/0636 (2013.01 - EP); **F03C 1/0652** (2013.01 - EP); **F03C 1/0686** (2013.01 - EP); **F03C 1/0694** (2013.01 - EP); **F04B 1/20** (2013.01 - EP US); **F04B 1/2035** (2013.01 - EP US); **F04B 1/324** (2013.01 - EP); **F04B 1/328** (2013.01 - EP US); **F04B 23/025** (2013.01 - EP)

Citation (search report)

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- [A] GB 1374752 A 19741120 - HASTIE CO LTD JOHN
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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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