

Title (en)

HARMONIC DISTRIBUTION RADIAL PISTON HYDRAULIC MACHINE

Title (de)

HYDRAULISCHE RADIALKOLBENMASCHINE MIT HARMONISCHER VERTEILUNG

Title (fr)

MACHINE HYDRAULIQUE A PISTONS RADIAUX A DISTRIBUTION EN HARMONIQUE

Publication

EP 3317537 B1 20190904 (FR)

Application

EP 16744448 A 20160701

Priority

- FR 1556203 A 20150701
- FR 2016051667 W 20160701

Abstract (en)

[origin: WO2017001802A1] The hydraulic machine comprises a cam (4) and a cylinder block with pistons (14) collaborating with the lobes of the cam, which lobes each have two ramps (50A, 50B) extending between top dead centre and bottom dead centre (PH, PB) arcs. The cylinders are connected alternately to a supply and to an exhaust, according to sequences separated by switchover phases comprising a phase of isolation with respect to the main, supply and exhaust, ducts. The angular position of the start or end of at least one first phase of isolation with respect to the corresponding dead centre arc differs from the angular position of the start or end of at least a second phase of isolation with respect to its corresponding dead centre arc, these dead centre arcs both being top dead centre or bottom dead centre arcs.

IPC 8 full level

F04B 1/04 (2006.01); **F03C 1/047** (2006.01); **F03C 1/247** (2006.01); **F03C 1/34** (2006.01); **F04B 1/047** (2006.01); **F04B 1/107** (2006.01)

CPC (source: EP US)

F03C 1/0435 (2013.01 - EP US); **F03C 1/047** (2013.01 - EP US); **F03C 1/0472** (2013.01 - US); **F03C 1/247** (2013.01 - EP US); **F04B 1/0452** (2013.01 - EP US); **F04B 1/047** (2013.01 - EP US); **F04B 1/1071** (2013.01 - EP US)

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

DOCDB simple family (publication)

WO 2017001802 A1 20170105; CN 107709769 A 20180216; CN 107709769 B 20191126; EP 3317537 A1 20180509; EP 3317537 B1 20190904; FR 3038348 A1 20170106; FR 3038348 B1 20190823; US 11067066 B2 20210720; US 2018187661 A1 20180705

DOCDB simple family (application)

FR 2016051667 W 20160701; CN 201680039312 A 20160701; EP 16744448 A 20160701; FR 1556203 A 20150701; US 201615740874 A 20160701