

Title (en)  
HYDROSTATIC RADIAL PISTON MACHINE

Title (de)  
HYDROSTATISCHE RADIALKOLBENMASCHINE

Title (fr)  
MACHINE HYDROSTATIQUE À PISTONS RADIAUX

Publication  
**EP 2510192 B1 20130626 (DE)**

Application  
**EP 10790918 A 20101207**

Priority  
• DE 102009054548 A 20091211  
• EP 2010069078 W 20101207

Abstract (en)  
[origin: WO2011070019A1] A hydrostatic radial piston machine has: a radial cylinder piston block (9) with cylinder bores (11) which emanate from an outer circumferential surface of the radial cylinder piston block, extend into the interior of the latter and are arranged distributed over the circumference thereof; a number of pistons (13) which corresponds to the number of cylinder bores; a cam ring (4) which is arranged eccentrically with respect to the radial cylinder piston block, surrounds the radial cylinder piston block circumferentially and on the inner circumferential surface (17) of which ends of the pistons which face away from the radial cylinder piston block are supported movably during the rotational movement of the radial cylinder piston block; and two control plate bodies (30, 32) which extend in each case with an end surface which faces the radial cylinder piston block towards a centre plane of the radial cylinder piston block, which centre plane is perpendicular with respect to the rotational axis, beyond a plane which is defined by an end surface, facing the respective control plate body, of the radial cylinder piston block at its point with the greatest axial width. Each control plate body has a bearing region, in which radially acting forces can be transmitted to a respective mating surface in the housing (2) or a housing cover (3) mounted in the latter.

IPC 8 full level  
**F01B 13/06** (2006.01); **F03C 1/04** (2006.01); **F04B 1/04** (2006.01); **F04B 1/107** (2006.01)

CPC (source: EP US)  
**F01B 13/062** (2013.01 - US); **F03C 1/0444** (2013.01 - EP US); **F04B 1/0465** (2013.01 - EP US); **F04B 1/063** (2013.01 - US); **F04B 1/1071** (2013.01 - EP US); **F04B 1/1072** (2013.01 - US)

Cited by  
US9784252B2

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)  
**DE 202010013078 U1 20110224**; CN 102652206 A 20120829; CN 102652206 B 20141224; DE 102009054548 A1 20110616; EP 2510192 A1 20121017; EP 2510192 B1 20130626; US 2013145929 A1 20130613; US 9784252 B2 20171010; WO 2011070019 A1 20110616

DOCDB simple family (application)  
**DE 202010013078 U 20101207**; CN 201080056016 A 20101207; DE 102009054548 A 20091211; EP 10790918 A 20101207; EP 2010069078 W 20101207; US 201213493188 A 20120611