

Title (en)
AXIAL PISTON MACHINE

Title (de)
AXIALKOLBENMASCHINE

Title (fr)
MACHINE À PISTONS AXIAUX

Publication
EP 3146208 A2 20170329 (DE)

Application
EP 15723031 A 20150520

Priority
• DE 102014209892 A 20140523
• EP 2015061149 W 20150520

Abstract (en)
[origin: WO2015177231A2] The invention relates to an axial piston machine (1) comprising: a shaft (3) which is non-rotatably connected to a swash plate (4); and cylinders (5) that are disposed annularly around and coaxially with the shaft (3), in which cylinders pistons (6) are disposed in a translationally displaceable manner, wherein each piston (6) is coupled to the swash plate (4) by means of a spherical bearing (7) and a sliding member (8) and wherein an inlet opening (9) is assigned to each cylinder (5). The axial piston machine further comprises a control plate (10) having an eccentrically disposed through-opening (11) which passes over each inlet opening (9) once during each revolution of the control plate (10) thereby guiding the working medium into the associated cylinder (5). According to the invention, at least one spherical bearing (7) has a multi-part design.

IPC 8 full level
F04B 27/08 (2006.01); **F01B 3/00** (2006.01); **F04B 27/10** (2006.01)

CPC (source: EP)
F01B 3/0026 (2013.01); **F01B 3/0088** (2013.01); **F04B 27/0878** (2013.01); **F04B 27/0882** (2013.01); **F04B 27/1045** (2013.01);
F04B 27/1054 (2013.01)

Citation (search report)
See references of WO 2015177231A2

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

DOCDB simple family (publication)
DE 102014209892 A1 20151126; EP 3146208 A2 20170329; EP 3146208 B1 20180829; WO 2015177231 A2 20151126;
WO 2015177231 A3 20160324

DOCDB simple family (application)
DE 102014209892 A 20140523; EP 15723031 A 20150520; EP 2015061149 W 20150520