

Title (en)
AXIAL PISTON MACHINE

Title (de)
AXIALKOLBENMASCHINE

Title (fr)
MACHINE À PISTONS AXIAUX

Publication
EP 3146209 A1 20170329 (DE)

Application
EP 15723679 A 20150511

Priority
• DE 102014209899 A 20140523
• EP 2015060370 W 20150511

Abstract (en)
[origin: WO2015176989A1] The invention relates to an axial piston machine (1), - comprising cylinders (5) arranged circularly around and coaxial to a shaft (3), and in which cylinders pistons (6) are arranged to be translationally adjustable, - wherein an inlet opening (9) is assigned to each cylinder (5), - comprising a control disk (10) connected rotationally fixed to the shaft (3) and having an eccentrically-arranged through opening (11) which, during each rotation of the control disk (10), passes over each inlet opening (9) once and thereby supplies working medium into the associated cylinder (5). The invention is characterized in that the control disk (10) is mounted adjustably on the shaft (3) in such a way that, at a predefined pressure in the cylinder (5), the control disk lifts reversibly from the inlet opening (9) and by this means enables a build up of pressure in the cylinder (5).

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

CPC (source: EP)
F01B 3/0002 (2013.01); **F01B 3/007** (2013.01); **F01B 3/101** (2013.01); **F04B 27/1009** (2013.01)

Citation (search report)
See references of WO 2015176989A1

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 102014209899 A1 20151126; EP 3146209 A1 20170329; EP 3146209 B1 20180307; WO 2015176989 A1 20151126

DOCDB simple family (application)
DE 102014209899 A 20140523; EP 15723679 A 20150511; EP 2015060370 W 20150511