

Title (en)

PISTON MACHINE WITH COOLING FUNCTION

Title (de)

KOLBENMASCHINE MIT KÜHLUNG

Title (fr)

MACHINE À PISTON À REFROIDISSEMENT

Publication

EP 3143258 A1 20170322 (DE)

Application

EP 15726873 A 20150512

Priority

- DE 102014208939 A 20140512
- EP 2015060500 W 20150512

Abstract (en)

[origin: WO2015173255A1] The invention relates to a piston machine which comprises: a housing with a chamber which has a substantially circle sector-shaped cross-section; a pivotal piston which is designed as a pivoting element, is arranged in the housing, and comprises a first working surface, wherein the housing and the piston define at least one first variable working chamber; a drive or output which is connected to the piston; and an outlet which is arranged in the working chamber for discharging a working fluid. The housing has a cooling opening in at least one housing wall, said opening leading to the chamber at least for convectively cooling a piston side opposite the first working surface by means of a coolant.

IPC 8 full level

F01C 21/10 (2006.01); **F04C 9/00** (2006.01); **F04C 15/00** (2006.01); **F04C 15/06** (2006.01)

CPC (source: CN EP US)

F01C 9/002 (2013.01 - US); **F01C 21/06** (2013.01 - US); **F01C 21/10** (2013.01 - CN EP US); **F01C 21/18** (2013.01 - US);
F04C 9/002 (2013.01 - CN EP US); **F04C 15/096** (2013.01 - CN EP US); **F04C 15/06** (2013.01 - EP US); **F04C 21/002** (2013.01 - US);
F04C 29/04 (2013.01 - US); **F04C 29/12** (2013.01 - US); **F04C 15/06** (2013.01 - CN); **F04C 2240/30** (2013.01 - US)

Citation (search report)

See references of WO 2015173255A1

Cited by

DE102022122759A1; WO2023232672A1

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 102014208939 A1 20151112; CN 106536856 A 20170322; CN 106536856 B 20190621; EP 3143258 A1 20170322;
EP 3143258 B1 20191030; EP 3660267 A1 20200603; EP 3660267 B1 20230426; ES 2766473 T3 20200612; ES 2950131 T3 20231005;
US 10221850 B2 20190305; US 2017138359 A1 20170518; WO 2015173255 A1 20151119

DOCDB simple family (application)

DE 102014208939 A 20140512; CN 201580038189 A 20150512; EP 15726873 A 20150512; EP 19205086 A 20150512;
EP 2015060500 W 20150512; ES 15726873 T 20150512; ES 19205086 T 20150512; US 201515309676 A 20150512