

Title (en)

PISTON WITH A CENTRAL COOLING CHAMBER

Title (de)

KOLBEN MIT ZENTRALEM KÜHLRAUM

Title (fr)

PISTON A CHAMBRE DE REFROIDISSEMENT CENTRALE

Publication

EP 1027535 A1 20000816 (DE)

Application

EP 98951264 A 19980829

Priority

- DE 9802595 W 19980829
- DE 19747944 A 19971030

Abstract (en)

[origin: DE19747944A1] The invention relates to a piston (1) with a central cooling chamber (7). Said cooling chamber is located beneath the piston head and is impinged upon by oil. At least the lower wall of the cooling chamber (7) is formed by a plate (9). The aim of the invention is to provide a means of fixing the plate (9) to the piston (1) as easily as possible. To this end, the piston (1) has at least one second pin or clamping sleeve situated above the piston pin (14). Said second piston pin or clamping sleeve (13) has a smaller diameter, extends approximately in the direction of the piston pin axis and is connected to the piston (1). The plate (9) which forms the lower wall of the cooling chamber (7) is supported against the second piston pin or clamping sleeve.

IPC 1-7

F02F 3/22

IPC 8 full level

F02F 3/22 (2006.01); **F16F 1/16** (2006.01)

CPC (source: EP US)

F02F 3/22 (2013.01 - EP US); **F05C 2201/0448** (2013.01 - EP US)

Citation (search report)

See references of WO 9923380A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

DE 19747944 A1 19990506; BR 9813312 A 20000822; DE 59804835 D1 20020822; EP 1027535 A1 20000816; EP 1027535 B1 20020717; JP 2001522018 A 20011113; JP 4169477 B2 20081022; US 6202619 B1 20010320; WO 9923380 A1 19990514

DOCDB simple family (application)

DE 19747944 A 19971030; BR 9813312 A 19980829; DE 59804835 T 19980829; DE 9802595 W 19980829; EP 98951264 A 19980829; JP 2000519213 A 19980829; US 53007600 A 20000421