

Title (en)
CYLINDER LINER AND PISTON ENGINE

Title (de)
ZYLINDERROHR UND KOLBENMOTOR

Title (fr)
CHEMISE DE CYLINDRE ET MOTEUR À PISTON

Publication
EP 2861856 B1 20200610 (EN)

Application
EP 13732206 A 20130531

Priority
• FI 20125679 A 20120619
• FI 2013050594 W 20130531

Abstract (en)
[origin: WO2013190175A1] The piston engine comprises an engine block (3), at least one cylinder liner (2) that is arranged partly inside the engine block (3), a cylinder head (4) for closing the upper end of the cylinder liner (2), and a cooling jacket (10) that is arranged around the cylinder liner (2) and delimits together with the cylinder liner (2) a cooling channel (12). Each cylinder (1) of the engine is provided with only one cooling channel (12) for cooling the cylinder liner (2), and the whole cooling channel (12) is arranged above the engine block (3). The invention also concerns a cylinder liner (2).

IPC 8 full level
F02F 1/16 (2006.01)

CPC (source: CN EP FI)
F02F 1/004 (2013.01 - FI); **F02F 1/02** (2013.01 - FI); **F02F 1/163** (2013.01 - CN EP); **F02F 2001/006** (2013.01 - EP)

Citation (examination)
US 4440118 A 19840403 - STANG JOHN H [US], et al

Cited by
DE202023102190U1

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)
WO 2013190175 A1 20131227; CN 104395593 A 20150304; CN 104395593 B 20161005; EP 2861856 A1 20150422; EP 2861856 B1 20200610; FI 124465 B 20140915; FI 20125679 A 20131220

DOCDB simple family (application)
FI 2013050594 W 20130531; CN 201380030205 A 20130531; EP 13732206 A 20130531; FI 20125679 A 20120619