

Title (en)
INTERNAL COMBUSTION ENGINE

Title (de)
VERBRENNUNGSKRAFTMASCHINE

Title (fr)
MOTEUR A COMBUSTION INTERNE

Publication
EP 0953098 A1 19991103 (DE)

Application
EP 97947647 A 19971210

Priority
• AT 9700272 W 19971210
• AT 215696 A 19961211

Abstract (en)
[origin: WO9826157A1] The invention relates to an internal combustion engine comprising at least one cylinder and a crankcase (5), which together form a common cylindrical tubular body (1), and an oscillating piston (7) rotationally mounted around the cylinder axis separating the crankcase (5) from the cylinder chamber (4) that is defined by radial walls. Said oscillating piston (7) operates in conjunction with the crankshaft (16) that is placed parallel to the cylinder axis by means of a sliding guide for at least one crank pin (18) of the crank shaft (18) located on the crankcase side of the oscillating piston. In order to create advantageous conditions for the inventive embodiment, the crank pin (18) is supported by a roller (19) on the sliding guide (17) and the tubular body (1) formed by the cylinder and the crankcase (5) is thermally insulated from the outside.

IPC 1-7
F01C 9/00

IPC 8 full level
F02B 53/02 (2006.01); **F01C 9/00** (2006.01)

CPC (source: EP US)
F01C 9/002 (2013.01 - EP US); **Y10T 74/18056** (2015.01 - EP US); **Y10T 74/18256** (2015.01 - EP US)

Citation (search report)
See references of WO 9826157A1

Cited by
AT510278B1; WO2012155166A2

Designated contracting state (EPC)
DE ES FR GB IT SE

DOCDB simple family (publication)
WO 9826157 A1 19980618; AT 408126 B 20010925; AT A215696 A 20010115; DE 59707080 D1 20020523; EP 0953098 A1 19991103; EP 0953098 B1 20020417; ES 2175481 T3 20021116; RU 2188330 C2 20020827; US 6227152 B1 20010508

DOCDB simple family (application)
AT 9700272 W 19971210; AT 215696 A 19961211; DE 59707080 T 19971210; EP 97947647 A 19971210; ES 97947647 T 19971210; RU 99115776 A 19971210; US 31955199 A 19990608