

Title (en)

CARBON PISTON FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

KOHLENSTOFFKOLBEN FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

PISTON EN CARBONE POUR UN MOTEUR A COMBUSTION INTERNE

Publication

EP 1042601 B1 20040714 (DE)

Application

EP 99960799 A 19991021

Priority

- DE 9903379 W 19991021
- DE 19848649 A 19981022

Abstract (en)

[origin: DE19848649A1] A carbon piston engine having a lower side (112) that forms a domed surface, preferably an ellipsoid surface, in the area between the enlargements of the hub (151) irrespective of the design of the lower side of the piston head, whereby said domed surface is adjacent to the enlargements of the hub. The skirt (104) of the piston has an axial profile in the form of a conical surface with straight-line generatrices, tapering upwards as it comes into contact with the ring section.

IPC 1-7

F02F 3/00; F02F 3/02

IPC 8 full level

F02F 1/00 (2006.01); **F02F 3/00** (2006.01); **F02F 3/02** (2006.01); **F02F 3/28** (2006.01); **F16J 1/00** (2006.01); **F16J 1/01** (2006.01); **F16J 1/04** (2006.01); **F16J 1/08** (2006.01); **F16J 1/16** (2006.01); **F16J 10/00** (2006.01); **F16J 10/04** (2006.01)

CPC (source: EP US)

F02F 3/0084 (2013.01 - EP US); **F02F 3/022** (2013.01 - EP US); **F05C 2201/021** (2013.01 - EP US); **F05C 2201/0448** (2013.01 - EP US); **F05C 2251/042** (2013.01 - EP US)

Cited by

WO2008019814A1; EP2366281A1

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

DE 19848649 A1 20000504; **DE 19848649 C2 20000907**; **DE 19848649 C5 20081127**; DE 59909956 D1 20040819; EP 1042601 A1 20001011; EP 1042601 B1 20040714; ES 2222045 T3 20050116; JP 2002528669 A 20020903; US 6883418 B1 20050426; WO 0025012 A1 20000504

DOCDB simple family (application)

DE 19848649 A 19981022; DE 59909956 T 19991021; DE 9903379 W 19991021; EP 99960799 A 19991021; ES 99960799 T 19991021; JP 2000578551 A 19991021; US 58158100 A 20000614