

Title (en)  
Piston for internal combustion engine

Title (de)  
Kolben für Brennkraftmaschinen

Title (fr)  
Piston pour moteur à combustion

Publication  
**EP 0705968 B1 19980408 (DE)**

Application  
**EP 95111387 A 19950720**

Priority  
DE 4434994 A 19940930

Abstract (en)  
[origin: EP0705968A1] The piston has circular cylinder bushes, with a piston floor and a piston shaft (8) closed in a peripheral direction at least over a part of its axial length. The piston is forged and during operation of the engine is cooled by spray oil. One of the ribs (11) between the bolt eye (13) and the shaft wall is outwardly displaced relatively to the opposing rib (10) engaging on the same bolt eye. The two ribs of the other bolt eye have the distance from a central plane (E) vertical to the bolt axis.

IPC 1-7  
**F02F 3/22**; **F02F 3/00**

IPC 8 full level  
**F01P 3/08** (2006.01); **F02F 3/00** (2006.01); **F02F 3/22** (2006.01)

CPC (source: EP US)  
**F02F 3/0076** (2013.01 - EP US); **F02F 3/22** (2013.01 - EP US); **F02F 2200/04** (2013.01 - EP US)

Cited by  
EP0913566A3; DE19810883A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0705968 A1 19960410**; **EP 0705968 B1 19980408**; DE 4434994 A1 19960411; DE 4434994 C2 19980219; DE 59501832 D1 19980514; JP H08177620 A 19960712; US 5562074 A 19961008

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**EP 95111387 A 19950720**; DE 4434994 A 19940930; DE 59501832 T 19950720; JP 25130095 A 19950928; US 53618495 A 19950929