

Title (en)  
ASSEMBLED INTERNAL COMBUSTION ENGINE PISTON HAVING LIQUID COOLING MEANS

Publication  
**EP 0007661 B1 19810923 (DE)**

Application  
**EP 79200376 A 19790709**

Priority  
DE 2832970 A 19780727

Abstract (en)  
[origin: ES244842U] A liquid-cooled composite piston for internal combustion engines, especially for diesel engines by means of revolutions, the lower part of which consists of an eutectic alloy of aluminum and silicon, is connected by screws to the upper part, consists of a ferrous material, and in which on the lower side of the upper part a support collar is arranged in such a way that it runs concentrically and rests against an opposite support surface of the lower part, that the support collar that it runs concentrically and rests against an opposite support surface of the lower part, which the support collar forms, both the radial inner limitation of the annular cooling channel, open towards the plane of union of the two constructive parts of the piston. and located at the top behind the fire bridge and at least a piece of the annular part and also includes a central cooling chamber n open towards the plane of union of the two constructive parts of the piston that is connected to the cooling channel through holes for the cooling agent, which are arranged radially, characterized by a ring (7, 15, 19) consisting of ferrous material and concentrically clamped between the bearing surface (3, 12) of the bearing collar (4, 13) and the opposite bearing surface (5, 14) of the lower part (2, 11) the bearing surfaces being opposite each other of the support ring of the imprisoned ring shaped so that they can roll over each other in a peripheral direction: (Machine-translation by Google Translate, not legally binding)

IPC 1-7  
**F02F 3/16**; **F02F 3/02**

IPC 8 full level  
**F01P 3/06** (2006.01); **F02F 3/00** (2006.01); **F02F 3/02** (2006.01); **F02F 3/16** (2006.01); **F02F 3/18** (2006.01); **F02F 3/22** (2006.01); **F23R 3/40** (2006.01); **F02B 3/06** (2006.01)

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Citation (examination)  
• FR 2327409 A1 19770506 - WELLWORTHY LTD [GB]  
• DE 1253514 C

Cited by  
US8631736B2; EP0985739A1; DE102006055251A1; WO2008061486A3

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