

Title (en)

LIQUID-COOLED PISTON FOR INTERNAL-COMBUSTION ENGINES

Publication

**EP 0035290 B2 19890621 (DE)**

Application

**EP 81200115 A 19810130**

Priority

DE 3008330 A 19800305

Abstract (en)

[origin: US4368697A] In a composite, liquid-cooled piston, the upper part consists of ferrous material and is joined by conventional means to the lower part. A ring is provided on the underside of the upper part which bears on the corresponding surface of the lower part and constitutes a radially inner boundary of a cooling passage which is disposed on the upper part and open to the interfacial plane. To improve the cooling action in the hottest regions of the upper part and to achieve a more uniform distribution of temperature in the ring carrying over of the upper part of piston, the upper portion of the wall defining the cooling passage is coated with a material having a high thermal conductivity.

IPC 1-7

**F02F 3/22**; **F02F 3/10**

IPC 8 full level

**F02F 3/00** (2006.01); **F02F 3/10** (2006.01); **F02F 3/22** (2006.01); **F16J 1/00** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP US)

**F02F 3/0076** (2013.01 - EP US); **F02F 3/10** (2013.01 - EP US); **F02F 3/22** (2013.01 - EP US); **F02B 3/06** (2013.01 - EP US); **F02F 2003/0061** (2013.01 - EP US); **F02F 2200/04** (2013.01 - EP US); **F05C 2201/021** (2013.01 - EP US); **F05C 2201/0448** (2013.01 - EP US); **F05C 2251/048** (2013.01 - EP US); **F05C 2253/12** (2013.01 - EP US)

Cited by

DE102012216925A1; WO2014044659A1; WO2013057080A1; DE102012014192A1; DE102012014200A1; CN106593679A; CN103890363A; DE102007050214A1; DE102012211440A1; US9790889B2

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