

Title (en)

SINGLE-PART COOLING CHANNEL PISTON FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

EINTEILIGER KUEHLKANALKOLBEN FUER EINEN VERBRENNUNGSMOTOR

Title (fr)

PISTON MONOBLOC A CONDUITE DE REFROIDISSEMENT POUR MOTEUR A COMBUSTION INTERNE

Publication

**EP 1546536 B1 20090603 (DE)**

Application

**EP 03769202 A 20030919**

Priority

- DE 0303116 W 20030919
- DE 10244510 A 20020925

Abstract (en)

[origin: US6698392B1] A single-part cooling channel piston for a combustion engine with a piston head of forged steel comprises a combustion bowl in the piston crown, a ring wall with ring belt and an all-round closed cooling channel level with the ring belt. The piston skirt is connected to the pin bosses attached to the piston head. Inexpensive manufacture together with improved cooling and good form stability of the piston is achieved by providing the cooling channel with holes spread over its circumference towards the piston crown and spaced such that the piston material present between such holes forms supporting ribs for the piston crown.

IPC 8 full level

**F02F 3/22** (2006.01)

CPC (source: EP KR US)

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