

Title (en)

COOLING CHANNEL PISTON FOR AN INTERNAL COMBUSTION ENGINE AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

KÜHLKANALKOLBEN FÜR EINE BRENNKRAFTMASCHINE UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

PISTON À CANAL DE REFROIDISSEMENT POUR UN MOTEUR À COMBUSTION INTERNE ET PROCÉDÉ DE FABRICATION DUDIT PISTON

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Application

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Abstract (en)

[origin: WO2008003401A1] The invention relates to a method for producing a one-piece, lightweight piston (1) consisting of steel and having a small compression depth (S), said piston having at least one cavity (17) in a shaft aperture region (16). A piston blank is produced in a first step using a forging or casting method. To form a cooling channel (7) between an annular region (5) and a combustion chamber recess (3) an annular section (10) is formed in one piece onto the wall (8) of a cooling channel (7) in the vicinity of the piston base (11). The joint (12) produced between the annular section (10) and an outer wall (9) of the cooling channel (7) is sealed by welding.

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