

Title (en)

CASTING CORE FOR FORMING A COOLING CHANNEL IN A PISTON PRODUCED BY CASTING

Title (de)

GISSKERN ZUR BILDUNG EINES KÜHLKANALS IN EINEM GIESSTECHNISCH HERGESTELLTEN KOLBEN

Title (fr)

NOYAU DE COULÉE POUR FORMER UN CANAL DE REFROIDISSEMENT DANS UN PISTON PRODUIT PAR TECHNIQUE DE FONDERIE

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Application

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Abstract (en)

[origin: WO2008131754A1] The invention relates to a soluble and essentially annular casting core (2) for forming a cooling channel that transitions into two areas (14, 15) which are approximately parallel to the piston axis (16) and are facing away from the piston head (3), via a respective bending of the core (17, 18) in the shape of a quadrant, wherein the second area (14) transitions into a part of the casting core (2) that forms the feed opening (12) of the cooling channel, and the first area (15) transitions into a part of the casting core (2) that forms the discharge opening (13) of the cooling channel. The two areas (14, 15) of the casting core (2) are disposed at a distance from one another, which corresponds at a maximum to two times the cross-sectional diameter of one of the two areas (14, 15). As a result, the throughflow of the cooling oil traversing the cooling channel is accelerated and the cooling of the piston improved.

IPC 8 full level

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