

Title (en)  
PISTON FOR AN INTERNAL COMBUSTION ENGINE

Title (de)  
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Title (fr)  
PISTON POUR UN MOTEUR À COMBUSTION INTERNE

Publication  
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Application  
**EP 13745565 A 20130503**

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Abstract (en)  
[origin: WO2013167103A2] The invention relates to a piston (10,) for an internal combustion engine, comprising a piston head (11) and a piston skirt (16), said piston head (11) having a peripheral annular part (15) and in the region of said annular part (15), a peripheral cooling channel (23). The piston skirt (16) comprises piston bores (17) provided with hub bores (18), which are arranged over the hub connections (19) on the underside (11a) of the piston head (11). Said piston hubs (17) are interconnected over the running surfaces (21, 22). According to the invention, the wall (23a) of the cooling channel (23) which extends in the region of the annular part (15) comprises an inclined portion and together with the central axis of the piston (M), forms an acute angle (a). At least one bore (24a, 24b, 24c, 24d) which is closed towards the outside is arranged between a running surface (21, 22) and a hub bore (18) such that the at least one bore (24a, 24b, 24c, 24d) leads into the cooling channel (23), and that the cooling channel (23) and the at least one bore (24a, 24b, 24c, 24d) contain a coolant (27) in the form of a metal or a metal alloy which have a low-melting point.

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• FR 2901577 A3 20071130 - RENAULT SAS [FR]  
• GB 517713 A 19400207 - ARTHUR VILLENEUVE NICOLLE, et al

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