Title (en)

METHOD FOR PRODUCING AN ARBITRARY GEOMETRY ON PISTONS OF INTERNAL COMBUSTION ENGINES

Title (de)

VERFAHREN ZUR ERZEUGUNG EINER BELIEBIG GESTALTETEN GEOMETRIE AN KOLBEN VON BRENNKRAFTMASCHINEN

Title (fr)

PROCÉDÉ POUR CONFÉRER À DES PISTONS DE MOTEURS À COMBUSTION INTERNE UNE GÉOMÉTRIE DE CONCEPTION QUELCONQUE

Publication

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Application

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Abstract (en)

[origin: WO2011141071A1] The invention relates to a method for processing a constructed, liquid-cooled piston (1) of an internal combustion engine, said piston comprising an upper piston part (2) and a lower piston part (7), which are supported by means of a joining plane (10) and are connected to each other in a bonded manner. An electrochemical method, electrochemical machining, is used to produce a passage opening (12) or a hole in the piston (1). By means of said method, material is selectively removed after the completion of the upper piston part (2), the lower piston part (7), or the piston (1) after the two piston components have been joined. The electrochemical machining allows an arbitrarily geometrically designed topography having at least one passage opening (12), a hollow, or an oil pocket in cooling areas or non-cooling areas to be created on the piston (1).

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