

Title (en)

GUDGEON PIN FOR INTERNAL COMBUSTION ENGINES, SYSTEM, ENGINE AND USE OF A GUDGEON PIN OF THIS TYPE

Title (de)

KOLBENBOLZEN FÜR VERBRENNUNGSMOTOREN, SYSTEM, MOTOR UND VERWENDUNG EINES SOLCHEN KOLBENBOLZENS

Title (fr)

AXE DE PISTON POUR MOTEURS À COMBUSTION INTERNE, SYSTÈME, MOTEUR ET UTILISATION D'UN TEL AXE DE PISTON

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Application

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Abstract (en)

[origin: WO2018158419A1] The present invention is directed to a gudgeon pin for internal combustion engines, which gudgeon pin consists of case-hardened steel and is characterized in that a ratio of a residual wall thickness of the gudgeon pin to an overall thickness of a case-hardened layer is < 2 , and a ratio of the inner diameter and the outer diameter of the gudgeon pin is $> 60\%$. Furthermore, the present invention is directed to a system comprising the gudgeon pin according to the invention and a piston, wherein the piston has a piston boss with a transverse ovality which corresponds with an ovalization of the gudgeon pin under maximum ignition pressure. The invention also comprises an engine, in particular an internal combustion engine, having the gudgeon pin or the system comprising the gudgeon pin and the piston, and a use thereof for engines, in particular internal combustion engines.

IPC 8 full level

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