

Title (en)
PISTON-PIN BEARING FOR INTERNAL COMBUSTION ENGINES

Title (de)
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Title (fr)
PALIERS D'AXE DE PISTON POUR MOTEURS A COMBUSTION INTERNE

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Application
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Abstract (en)
[origin: WO03098078A1] The invention relates to a piston-pin bearing for an internal combustion engine wherein a cylindrical piston pin (8) is mounted. The inventive piston-pin bearing is provided with an improved form of hub bore in comparison with prior art, significantly reducing mechanical stress in said piston and therefore resulting in a longer service life for said piston. Said form also avoids the formation of noise in the piston-pin bearing. According to the invention, this is achieved by providing the lateral surface (5) of the hub bore (2) with a highly oval shape along the entire axis of the hub in the equatorial-zenith-equatorial area of said hub, corresponding to the parameter representation of an oval $x = \frac{b}{2} \times \cos < \}$; $y = \frac{a}{2} \times \sin < \}$ for $0 \text{ DEG} = = 180 \text{ DEG}$, and by providing it with a circular cylindrical shape in the equatorial-nadir-equatorial region of the hub, whereby a: large oval diameter; b = D: small oval diameter; D: diameter of the cylindrical hub; : the angle forming any particular unlimited line counter to the z axis.>

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