

Title (en)

A CYLINDER HEAD FOR A LEAN-BURN GASOLINE ENGINE

Title (de)

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Title (fr)

CULASSE DE MOTEUR À ESSENCE À MÉLANGE PAUVRE

Publication

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Application

EP 21716626 A 20210326

Priority

EP 2021057921 W 20210326

Abstract (en)

[origin: WO2022199836A1] A cylinder head for a lean-burn gasoline engine comprising a combustion chamber (50) extending into the cylinder head away from a gasket interface surface (58), wherein the combustion chamber comprises. The combustion chamber has a roof surface (90) which intersects the gasket interface surface at an opening. A pair of air inlet openings and a pair of outlet openings are located in the roof surface on an air inlet side and an exhaust outlet side of the combustion chamber respectively. The roof surface comprises a central elongate domed portion (88) orientated across the combustion chamber in a direction substantially parallel to a plane separating the air inlet side of the combustion chamber from the exhaust outlet side of the combustion chamber. The central elongate domed portion is made up of a plurality of machined facets, a first pair of which comprise curved surfaces. A first one of the first pair of facets is located between the air inlet openings, and a second one of the first pair of facets is at least partially located between the exhaust outlet openings. The first pair of facets are configured so that they are machinable by the same cutter.

IPC 8 full level

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