

Title (en)

GAS JET FLUID BARRIER FOR TWO CYCLE ENGINES

Title (de)

GASSTRAHLFLUIDSPERRE FÜR ZWEITAKTMOTOREN

Title (fr)

BARRIERE DE FLUIDE EN JET DE GAZ POUR MOTEUR DEUX TEMPS

Publication

EP 1848881 A2 20071031 (EN)

Application

EP 06711404 A 20060127

Priority

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Abstract (en)

[origin: WO2006080044A2] A system capable of avoiding or limiting the leakage of the fresh gases of a two-cycle internal-combustion engine during the exhaust/transfer stroke consists of a (pressurized) fluid barrier provided by various devices and positioned downstream of the exhaust port in the cylinder manifold. In the embodiment disclosed the fluid barrier is formed by a gas jet from a pneumatic circuit provided with pressure accumulator that takes exhaust gases from the exhaust pipe of the engine and lets them crosswise in the exhaust manifold of the engine's cylinder downstream of the exhaust port through a nozzle. This almost continuous, pressurized fluid barrier (gas jet) prevents the leakage of fresh gases from the cylinder along the path of the exhaust gases apart from the number of revolutions of the engine without hindering the emptying of the cylinder, thus accomplishing the objects of reducing fuel consumption as well as cutting down the polluting emissions.

IPC 8 full level

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CPC (source: EP)

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