

Title (en)
RECIPROCATING ENGINE WITH BURNT GAS RETENTION

Title (de)
KOLBENMOTOR MIT ABGASRÜCKHALTUNG

Title (fr)
MOTEUR ALTERNATIF À RÉTENTION DE GAZ BRÛLÉS

Publication
EP 2118464 A2 20091118 (FR)

Application
EP 08761850 A 20080207

Priority
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• FR 0700989 A 20070212

Abstract (en)
[origin: FR2912465A1] The engine has a cylinder (12) containing a volume of burnt gas (34) and a fresh load (36) that is formed of homogeneous mixture of air and gaseous fuel. The gas and the load are separated with each other by an intermediate volume of a mixture (38) of the gas and the load. An effective compression ratio is insufficient for causing an auto-ignition in the load, and is sufficient for causing lighting from a hot spot in the intermediate volume. A progressive inlet unit progressively introduces the load in a combustion chamber (20) in order to confine and develop the combustion in the chamber. An independent claim is also included for a method for combustion of a homogeneous gaseous mixture of air and fuel in an internal combustion engine.

IPC 8 full level
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