

Title (en)

LOW EVAPORATIVE EMISSIONS INTEGRATED AIR FUEL MODULE

Title (de)

INTEGRIERTES LUFT-BRENNSTOFF-MODUL MIT NIEDRIGEN BRENNSTOFF-GAS-EMISSIONEN

Title (fr)

MODULE AIR-CARBURANT INTEGRE A FAIBLES EMISSIONS DE VAPEURS DE CARBURANT

Publication

EP 1252430 B1 20070117 (EN)

Application

EP 00955532 A 20000815

Priority

- US 0022297 W 20000815
- US 14914299 P 19990816

Abstract (en)

[origin: WO0112973A1] An integrated air fuel module for an internal combustion engine reduces or eliminates the escape of hydrocarbon evaporative emissions from the integrated air fuel module system, sub systems and components. The integrated air fuel module includes containment means, such as a valve or carbon adsorber, that blocks the escape of evaporated hydrocarbon emissions from the air inlet of an engine during engine off conditions. The module provides a reduced number of potential external hydrocarbon leak and permeation paths to the surrounding atmosphere. Preferred geometries of the intake manifold in the module with the internal integration of other normally external systems, such as fuel injection and positive crankcase ventilation systems, accomplish the containment of evaporative emissions within or entering the air fuel module between engine operating periods when the engine is shut down.

IPC 8 full level

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