

Title (en)

Two-stroke Twin-injector-per-cylinder engine

Title (de)

Zweitaktbrennkraftmaschine mit zwei Injektoren pro Zylinder

Title (fr)

Moteur à combustion interne à deux temps, à deux injecteurs par cylindre

Publication

EP 0846848 A1 19980610 (EN)

Application

EP 97121239 A 19971203

Priority

IT TO960978 A 19961203

Abstract (en)

The two-stroke twin-injector-per-cylinder engine is characterized by the introduction of a compressed-air supplementary injector which enables the engine to operate as a two-stroke only engine and with the exhaust valves alone. This simplification makes it possible to achieve a higher power compared to the traditional four-stroke engine. The engine must be provided with a compressor-tank assembly combined with one or more turbosuperchargers in series with air intake and choke tube, a computerized electronic control unit and an injection fuel pump and electro-injection valves with different characteristics between Diesel engines and petrol engines. The materials, pressures, dimensions and electric wiring schemes adopted are appropriate for any type of vehicle and for the aforesaid purpose. The introduction of the compressed-air injector guarantees an increase in volumetric efficiency and in power of any type of internal combustion engine provided with compressor, with or without tank, or even only with a turbosupercharger or turbo-intercooler. <IMAGE>

IPC 1-7

F02B 25/14; **F02B 69/06**

IPC 8 full level

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CPC (source: EP)

F02B 25/145 (2013.01); **F02B 69/06** (2013.01); **F02B 2075/025** (2013.01); **F02B 2075/027** (2013.01)

Citation (search report)

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