

Title (en)

DEVICE FOR ACCELERATING A TURBOCHARGING UNIT AT LOW SPEEDS OF A RECIPROCATING ENGINE AND RECIPROCATING ENGINE COMPRISING SAME

Title (de)

VORRICHTUNG ZUR BESCHLEUNIGUNG EINER TURBOLADEREINHEIT BEI NIEDRIGEN DREHZAHLEN EINER KOLBENMASCHINE UND DIESE UMFASSENDE KOLBENMASCHINE

Title (fr)

DISPOSITIF D'ACCELERATION D'UN GROUPE DE TURBOCOMPRESSION AUX BAS REGIMES D'UN MOTEUR ALTERNATIF ET MOTEUR ALTERNATIF COMPORTANT UN TEL DISPOSITIF

Publication

EP 1861598 A2 20071205 (FR)

Application

EP 06726100 A 20060317

Priority

- FR 2006000600 W 20060317
- FR 0502838 A 20050322

Abstract (en)

[origin: WO2006100370A2] The invention concerns a device for accelerating a turbocharging unit at low speeds of a reciprocating engine (1) operating in accordance with a four-stroke cycle and comprising at least one cylinder (1a) equipped with at least one intake valve (2) connected to an intake manifold (3) and with at least one exhaust valve (4) connected to an exhaust manifold (5), said turbocharging unit comprising at least one turbocharger (10) including an air compressor (11) feeding the intake manifold (3) and a radial turbine (12) fed by the exhaust manifold (5) and driving the compressor (11). The device comprises an aerodynamic ejector (20) drawing a propellant stream on the exhaust gases of the engine (1) and a stream driven on the air delivered by the compressor (11) and forming a mixed stream which feeds the turbine (12) of the turbocharging unit.

IPC 8 full level

F02B 37/16 (2006.01); **F02B 37/007** (2006.01); **F02B 37/12** (2006.01)

CPC (source: EP US)

F02B 37/007 (2013.01 - EP US); **F02B 37/10** (2013.01 - EP US); **F02B 37/12** (2013.01 - EP US); **F02B 37/16** (2013.01 - EP US); **F02B 37/166** (2013.01 - EP US); **F02B 37/18** (2013.01 - EP US); **F02B 37/183** (2013.01 - EP US); **F02B 37/186** (2013.01 - EP US); **F02M 26/25** (2016.02 - EP US); **F02M 26/36** (2016.02 - EP US); **F02M 26/51** (2016.02 - EP US); **F02D 23/00** (2013.01 - EP US); **F02M 26/05** (2016.02 - EP US); **F02M 26/28** (2016.02 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)

See references of WO 2006100370A2

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

WO 2006100370 A2 20060928; **WO 2006100370 A3 20070215**; EP 1861598 A2 20071205; FR 2883601 A1 20060929; FR 2883601 B1 20071005; US 2008066466 A1 20080320

DOCDB simple family (application)

FR 2006000600 W 20060317; EP 06726100 A 20060317; FR 0502838 A 20050322; US 85918507 A 20070921