

Title (en)
INTERNAL COMBUSTION ENGINE COMPRISING AN ENGINE BRAKING MECHANISM

Title (de)
BRENNKRAFTMASCHINE MIT EINER MOTORBREMSEINRICHTUNG

Title (fr)
MOTEUR A COMBUSTION INTERNE COMPORTANT UN SYSTEME DE FREIN MOTEUR

Publication
EP 1658423 A1 20060524 (DE)

Application
EP 04741405 A 20040811

Priority
• EP 2004008978 W 20040811
• DE 10339857 A 20030829

Abstract (en)
[origin: DE10339857A1] The engine has at least one outlet valve per engine cylinder. It also has an exhaust gas turbo charger (3) whose turbine (5) is associated with an exhaust gas passage (8) and whose compressor (6) is associated with an intake passage (9) of the engine. A turbine (4) is driven by the engine exhaust gas and is coupled to a gear of the engine. This is connected after the exhaust gas turbine. A bypass line (15) bypasses the turbine (4) and a bypass unit (16) in the line is connected to the turbine (4) via an exhaust gas line. The bypass unit is in the form of a combined switch and throttle valve so that the exhaust line can be fully closed and the bypass line can be fully or partially closed.

IPC 1-7
F02B 37/00

IPC 8 full level
F02B 37/00 (2006.01); **F02B 37/24** (2006.01); **F02B 37/22** (2006.01)

CPC (source: EP US)
F02B 37/005 (2013.01 - EP US); **F02B 37/24** (2013.01 - EP US); **F02B 41/10** (2013.01 - EP US); **F02D 13/04** (2013.01 - EP US); **F01L 13/06** (2013.01 - EP US); **F01L 13/065** (2013.01 - EP US); **F02B 37/22** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US); **Y10T 137/86871** (2015.04 - EP US)

Citation (search report)
See references of WO 2005028830A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 10339857 A1 20050324; EP 1658423 A1 20060524; JP 2007504383 A 20070301; US 2006174620 A1 20060810; US 7347048 B2 20080325; WO 2005028830 A1 20050331

DOCDB simple family (application)
DE 10339857 A 20030829; EP 04741405 A 20040811; EP 2004008978 W 20040811; JP 2006524273 A 20040811; US 36350206 A 20060227