

Title (en)

ARRANGEMENT FOR SUPPLYING FRESH GAS TO A TURBOCHARGED INTERNAL COMBUSTION ENGINE AND METHOD FOR CONTROLLING THE ARRANGEMENT

Title (de)

ANORDNUNG ZUR FRISCHGASVERSORGUNG EINER TURBOAUFGEADENEN VERBRENNUNGSMASCHINE UND VERFAHREN ZUM STEUERN DER ANORDNUNG

Title (fr)

SYSTÈME D'ALIMENTATION EN GAZ FRAIS UN MOTEUR À COMBUSTION INTERNE À TURBOCOMPRESSEUR ET PROCÉDÉ DE COMMANDE DU SYSTÈME

Publication

**EP 2347107 A1 20110727 (DE)**

Application

**EP 09778585 A 20090917**

Priority

- EP 2009006730 W 20090917
- DE 102008048366 A 20080922

Abstract (en)

[origin: WO2010031561A1] An arrangement for supplying fresh gas to a turbocharged internal combustion engine (1) having an intake line (14) and an exhaust gas line (15), comprising: an exhaust gas turbocharger (2) having at least one compressor impeller (4) for compressing fresh gas and feeding the compressed fresh gas to the internal combustion engine (1), and having at least one drive impeller (5) for driving the internal combustion engine (1) with exhaust gas for driving the compressor impeller (4); and a compressed air supply system (7) for the controlled supply of compressed fresh gas or compressed air to the internal combustion engine (1), wherein the compressed air supply system (7) is connected via a charge air intake (10) to the compressor impeller (4), via an outlet (13) to the intake line (14) and via a compressed air inlet (11) to a compressed air source, wherein the at least one compressor impeller (4) of the exhaust gas turbocharger (2) is composed completely or partially of steel or an steel alloy.

IPC 8 full level

**F02B 21/00** (2006.01); **F02B 33/44** (2006.01); **F02B 37/00** (2006.01); **F02B 37/04** (2006.01); **F02D 9/02** (2006.01); **F02D 41/00** (2006.01)

CPC (source: EP US)

**F02B 21/00** (2013.01 - EP US); **F02B 33/44** (2013.01 - EP US); **F02B 37/00** (2013.01 - EP US); **F02B 37/04** (2013.01 - EP US); **F02M 23/001** (2013.01 - EP US); **F02B 29/04** (2013.01 - EP US); **F05B 2220/40** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)

See references of WO 2010031561A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**WO 2010031561 A1 20100325**; CA 2739358 A1 20100325; DE 102008048366 A1 20100408; EP 2347107 A1 20110727; MX 2011002826 A 20110421; US 2011219766 A1 20110915

DOCDB simple family (application)

**EP 2009006730 W 20090917**; CA 2739358 A 20090917; DE 102008048366 A 20080922; EP 09778585 A 20090917; MX 2011002826 A 20090917; US 201113052555 A 20110321