

Title (en)

DRIVETRAIN WITH SUPERCHARGED INTERNAL COMBUSTION ENGINE AND TURBOCOMPOUND SYSTEM

Title (de)

ANTRIEBSSTRANG MIT AUFGELADENEM VERBRENNUNGSMOTOR UND TURBOCOMPOUNDSYSTEM

Title (fr)

CHAÎNE CINÉMATIQUE DOTÉE D'UN MOTEUR À COMBUSTION INTERNE SURALIMENTÉ ET SYSTÈME TURBOCOMPOUND

Publication

EP 2676018 A1 20131225 (DE)

Application

EP 12714555 A 20120210

Priority

- DE 102011011637 A 20110217
- EP 2012000602 W 20120210

Abstract (en)

[origin: WO2012110217A1] The invention relates to a drivetrain, in particular motor vehicle drivetrain, having an internal combustion engine which generates an exhaust-gas flow and which has a drive output shaft for transmitting drive power into the drivetrain; - having a turbocharger; - having a turbocompound system comprising an exhaust-gas power turbine which is arranged in the exhaust-gas flow and which is or can be switched into drive connection with the drive output shaft of the internal combustion engine. The invention is characterized in that - the turbocharger is of at least two-stage design and comprises a first turbocharger turbine, which is arranged in the exhaust-gas flow and which drives a first turbocharger compressor arranged in a fresh-air flow conducted to the internal combustion engine, and a second turbocharger turbine, which is arranged downstream of the first turbocharger turbine in the exhaust-gas flow and which drives a second turbocharger compressor arranged upstream of the first turbocharger compressor in the fresh-air flow; and - the exhaust-gas power turbine of the turbocompound system is arranged in the exhaust-gas flow so as to be parallel, with regard to its throughflow, to the second turbocharger turbine.

IPC 8 full level

F02B 37/013 (2006.01); **F02B 37/00** (2006.01); **F02B 37/04** (2006.01); **F02B 37/18** (2006.01); **F02B 41/10** (2006.01); **F02M 25/07** (2006.01)

CPC (source: EP)

F02B 37/004 (2013.01); **F02B 37/013** (2013.01); **F02B 37/04** (2013.01); **F02B 37/18** (2013.01); **F02B 41/10** (2013.01); **F02B 29/0425** (2013.01); **F02B 29/0475** (2013.01); **F02M 26/08** (2016.02); **Y02T 10/12** (2013.01)

Citation (search report)

See references of WO 2012110217A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012110217 A1 20120823; BR 112013018407 A2 20161011; CN 103282620 A 20130904; DE 102011011637 A1 20120913; EP 2676018 A1 20131225; JP 2014506651 A 20140317

DOCDB simple family (application)

EP 2012000602 W 20120210; BR 112013018407 A 20120210; CN 201280004308 A 20120210; DE 102011011637 A 20110217; EP 12714555 A 20120210; JP 2013553832 A 20120210