

Title (en)
EXHAUST GAS HEAT UTILIZATION IN MOTOR VEHICLES

Title (de)
ABGASWÄRMENUTZUNG IN KRAFTFAHRZEUGEN

Title (fr)
UTILISATION DE LA CHALEUR DES GAZ D'ÉCHAPPEMENT DANS DES VÉHICULES À MOTEUR

Publication
EP 2411652 A2 20120201 (DE)

Application
EP 10712331 A 20100324

Priority
• EP 2010001834 W 20100324
• DE 102009020615 A 20090509

Abstract (en)
[origin: WO2010130317A2] The invention relates to an exhaust gas heat utilization device (1) in a motor vehicle using an exhaust gas heat utilization cycle (2) in which a working temperature of a working fluid of the exhaust gas heat utilisation cycle (2) is controlled. The working temperature (T1, T2, T3) is controlled by adapting a mass flow of the working fluid flowing through the heat exchanger (5) of the exhaust gas heat utilisation cycle (2) such that a maximum permitted working temperature, in particular the decomposition temperature, of the working fluid is not exceeded.

IPC 8 full level
F02G 5/02 (2006.01); **F01K 23/06** (2006.01); **F01K 25/10** (2006.01); **F01N 5/02** (2006.01)

CPC (source: EP US)
F01K 23/065 (2013.01 - EP US); **F01K 25/10** (2013.01 - EP US); **F01N 5/02** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)
See references of WO 2010130317A2

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

DOCDB simple family (publication)
DE 102009020615 A1 20101111; CN 102422007 A 20120418; EP 2411652 A2 20120201; JP 2012526224 A 20121025; US 2012090321 A1 20120419; WO 2010130317 A2 20101118; WO 2010130317 A3 20111013

DOCDB simple family (application)
DE 102009020615 A 20090509; CN 201080020310 A 20100324; EP 10712331 A 20100324; EP 2010001834 W 20100324; JP 2012508921 A 20100324; US 201113373279 A 20111109