Title (en)

NOX REDUCTION WITHOUT UREA USING A DUAL STAGE CATALYST SYSTEM WITH INTERCOOLING IN VEHICLE GASOLINE ENGINES

Title (de)

NOX-REDUKTION OHNE HARNSTOFF UNTER VERWENDUNG EINES ZWEISTUFIGEN KATALYSATORSYSTEMS MIT LADELUFTKÜHLUNG IN FAHRZEUGBENZINMOTOREN

Title (fr)

RÉDUCTION DE NOX SANS URÉE À L'AIDE D'UN SYSTÈME DE CATALYSEUR À DEUX ÉTAGES AVEC UN REFROIDISSEMENT INTERMÉDIAIRE DANS DES MOTEURS À ESSENCE DE VÉHICULE

Publication

EP 3579950 A1 20191218 (EN)

Application

EP 17895810 A 20171101

Priority

- US 201762457846 P 20170211
- US 201715496828 A 20170425
- US 2017029423 W 20170425
- US 201715658998 A 20170725
- US 2017043711 W 20170725
- US 2017059488 W 20171101

Abstract (en)

[origin: US2018230874A1] An engine radiator cooling fluid circuit and an exhaust gas intercooler (EGI) radiator cooling fluid circuit are fluidically in parallel with one another. The engine radiator cooling fluid circuit extends from the radiator to an engine associated with a vehicle or a stationary system such as a CHP system. The EGI radiator cooling fluid circuit extends from a radiator to an EGI that cools exhaust gas as it flows through an exhaust conduit that extends from a first catalytic converter to a second catalytic converter. The radiator cooling fluid circuits can share a common radiator coil or each radiator cooling fluid circuit can be associated with a respective radiator coil in the radiator. A gas particulate filter can be coupled to the exhaust conduit or the second catalytic converter. An air-driven exhaust gas ejector (EGE) such as an engine charger compressor injects air into an inlet port in the exhaust conduit.

IPC 8 full level

B01D 53/94 (2006.01); **B01J 29/74** (2006.01)

CPC (source: EP US)

B01D 53/94 (2013.01 - EP); **B01D 53/9422** (2013.01 - EP); **B01D 53/9431** (2013.01 - EP); **B01D 53/9495** (2013.01 - EP); **B01J 29/74** (2013.01 - EP); **F01N 3/0205** (2013.01 - EP US); **F01N 3/021** (2013.01 - EP US); **F01N 3/043** (2013.01 - EP US); **F01N 3/101** (2013.01 - EP); **F01N 3/103** (2013.01 - EP); **F01N 3/106** (2013.01 - US); **F01N 3/2073** (2013.01 - EP); **F01N 3/225** (2013.01 - EP US); **F01N 3/30** (2013.01 - EP); **F01N 3/32** (2013.01 - EP US); **F01N 9/002** (2013.01 - EP US); **F01P 3/20** (2013.01 - EP US); **F01P 7/16** (2013.01 - US); B01D 2255/20707 (2013.01 - EP); B01D 2255/20723 (2013.01 - EP); B01D 2255/50 (2013.01 - EP); B01D 2255/904 (2013.01 - EP); B01D 2255/91 (2013.01 - EP); B01D 2258/014 (2013.01 - EP); F01N 3/035 (2013.01 - EP US); F01N 3/101 (2013.01 - US); F01N 2240/02 (2013.01 - EP US); F01N 2240/22 (2013.01 - EP US); F01N 2560/025 (2013.01 - EP US); F01N 2560/06 (2013.01 - EP US); F01N 2900/1404 (2013.01 - EP US); F01P 2007/146 (2013.01 - US); F01P 2060/16 (2013.01 - EP US); Y02A 50/20 (2017.12 - EP US); Y02T 10/12 (2013.01 - EP US); Y02T 10/40 (2013.01 - EP US)

Citation (search report)

See references of WO 2018147912A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 2018230874 A1 20180816; EP 3579950 A1 20191218; JP 2020510778 A 20200409

DOCDB simple family (application)

US 201715658998 A 20170725; EP 17895810 A 20171101; JP 2019543863 A 20171101