

Title (en)

EXHAUST GAS PURIFICATION SYSTEM FOR PURIFYING EXHAUST GASES OF INTERNAL COMBUSTION ENGINES

Title (de)

ABGASREINIGUNGSSYSTEM ZUR REINIGUNG VON ABGASEN VON BENZINMOTOREN

Title (fr)

SYSTÈME D'ÉPURATION DES GAZ D'ÉCHAPPEMENT POUR ÉPURER LES GAZ D'ÉCHAPPEMENT DE MOTEURS À COMBUSTION INTERNE

Publication

EP 4373613 A1 20240529 (DE)

Application

EP 22748323 A 20220711

Priority

- DE 102021118801 A 20210721
- EP 2022069288 W 20220711

Abstract (en)

[origin: WO2023001617A1] The invention is directed to the purification of exhaust gases of an internal combustion engine operated predominantly with a stoichiometric fuel mixture. The exhaust gas system has in particular 4 purification functions in a particular order. A three-way catalyst (TWC1) near the engine is followed by a gasoline particle filter (GPF) and another three-way catalyst (TWC2) downstream thereof. The system additionally has a nitrogen oxide storage function.

IPC 8 full level

B01J 23/02 (2006.01); **B01D 53/94** (2006.01); **B01J 23/40** (2006.01); **F01N 3/022** (2006.01); **F01N 3/035** (2006.01); **F01N 3/10** (2006.01)

CPC (source: EP)

B01D 53/9477 (2013.01); **F01N 3/035** (2013.01); **F01N 3/0814** (2013.01); **F01N 3/0842** (2013.01); **F01N 3/101** (2013.01); **F01N 13/0093** (2014.06); **B01D 2255/202** (2013.01); **B01D 2255/204** (2013.01); **B01D 2255/2065** (2013.01); **B01D 2255/50** (2013.01); **B01D 2255/91** (2013.01); **F01N 2370/00** (2013.01); **F01N 2510/06** (2013.01)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102021118801 A1 20230126; CN 117751012 A 20240322; EP 4373613 A1 20240529; WO 2023001617 A1 20230126

DOCDB simple family (application)

DE 102021118801 A 20210721; CN 202280050326 A 20220711; EP 2022069288 W 20220711; EP 22748323 A 20220711