

Title (en)

EXHAUST PROCESSING SYSTEM, USE THEREOF AND VEHICLE COMPRISING THE SAME

Title (de)

ABGASNACHBEHANDLUNGSSYSTEM, VERWENDUNG DAVON UND FAHRZEUG DAMIT

Title (fr)

SYSTÈME DE TRAITEMENT D'ÉCHAPPEMENT, SON UTILISATION ET VÉHICULE LE COMPRENANT

Publication

**EP 3848563 A1 20210714 (EN)**

Application

**EP 20150876 A 20200109**

Priority

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Abstract (en)

The present invention relates to an exhaust processing system for processing exhaust particles comprising at least one catalytic converter; at least one plasma apparatus comprising at least one first electrode structure and at least one second electrode structure. The exhaust processing system further comprises at least one voltage source connected to the first and/or second electrode structures. The voltage source is configured to create a potential difference between the first and second electrode structures such that at least one electrical discharge occurs in a discharge region between the first and second electrode structures, each electrical discharge having a discharge path. The catalytic converter and the plasma apparatus provide a passage configured to accommodate the flow of exhaust particles therethrough such that the exhaust particles pass through the discharge region of the plasma apparatus.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

WO 2017021194 A1 20170209 - TERRAPLASMA GMBH [DE]

Citation (search report)

- [X] JP H1193644 A 19990406 - NILES PARTS CO LTD
- [X] EP 3112030 A1 20170104 - UNIV VIGO [ES]
- [X] US 9982581 B1 20180529 - GOKTURK HALIT [US]
- [A] US 2019277268 A1 20190912 - NIKIC DEJAN [US], et al
- [AD] WO 2017021194 A1 20170209 - TERRAPLASMA GMBH [DE]

Designated contracting state (EPC)

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