

Title (en)  
EXHAUST GAS-PURIFYING DEVICE

Title (de)  
ABGASREINIGUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF SERVANT A PURIFIER DU GAZ D'ECHAPPEMENT

Publication  
**EP 1669563 A4 20061220 (EN)**

Application  
**EP 04787865 A 20040910**

Priority  
• JP 2004013225 W 20040910  
• JP 2003319850 A 20030911

Abstract (en)  
[origin: EP1669563A1] Provided is a plasma assisted exhaust emission control device with less electric power consumption and with no harmful gas discharged into atmosphere. A filter body (7) is constituted by porous members through which exhaust gas (2) passes for capturing of particulates in the exhaust gas (2) and is provided with rod-like and cylindrical electrodes (9,10) so as to generate plasma in the filter body (7), thereby providing a plasma regenerative particulate filter (11). The particulate filter (11) is accommodated in a filter casing (12) within an exhaust pipe (3). Oxidation catalysts (16,17) are arranged respectively upstream and downstream of and adjacent to the particular filter (11) in the filter casing (12) so as to obtain heat insulation effect to the particulate filter (11).

IPC 8 full level  
**F01N 3/02** (2006.01); **F01N 3/027** (2006.01); **B01D 46/42** (2006.01); **B01D 53/94** (2006.01); **B01J 19/08** (2006.01); **F01N 3/01** (2006.01); **F01N 3/022** (2006.01); **F01N 3/023** (2006.01); **F01N 3/025** (2006.01); **F01N 3/029** (2006.01); **F01N 3/035** (2006.01); **F01N 3/08** (2006.01); **F01N 3/18** (2006.01); **F01N 3/24** (2006.01); **F01N 3/28** (2006.01); **F01N 13/02** (2010.01); **F01N 13/04** (2010.01)

CPC (source: EP US)  
**B03C 3/025** (2013.01 - EP US); **B03C 3/06** (2013.01 - EP US); **B03C 3/155** (2013.01 - EP US); **B03C 3/41** (2013.01 - EP US); **B03C 3/49** (2013.01 - EP US); **F01N 3/0275** (2013.01 - EP US); **F01N 3/035** (2013.01 - EP US); **F01N 3/103** (2013.01 - EP US); **F01N 13/0097** (2014.06 - EP US); **F01N 13/017** (2014.06 - EP US); **B03C 2201/12** (2013.01 - EP US); **B03C 2201/30** (2013.01 - EP US); **F01N 2240/28** (2013.01 - EP US)

Citation (search report)  
• [A] WO 9938603 A1 19990805 - AEA TECHNOLOGY PLC [GB], et al  
• See references of WO 2005026506A1

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