

Title (en)
EXHAUST GAS PURIFYING DEVICE

Title (de)
ABGASREINIGUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE PURIFICATION DE GAZ D'ECHAPPEMENT

Publication
EP 1503069 A4 20060607 (EN)

Application
EP 03725610 A 20030418

Priority
• JP 0304995 W 20030418
• JP 2002306187 A 20021021
• KR 20020021748 A 20020420

Abstract (en)
[origin: EP1503069A1] In a path of a fuel pipe 18 from a fuel tank 16 to an internal combustion engine 14, a tube body 24 packed with a catalyst material 10 made of a mixture of nylon and ceramics that generate minus ions is connected to impart negative electric charges to liquid fuel 12 such as petroleum that is supplied. Thereby, in a path of a fuel pipe from a fuel tank to an internal combustion engine, a catalyst that applies pre-combustion treatment to liquid fuel is interposed and thereby harmful matters in exhaust gas from the internal combustion engine is reduced.
<IMAGE>

IPC 1-7
F02M 21/04; **C10L 1/00**

IPC 8 full level
C10G 29/00 (2006.01); **C10L 1/00** (2006.01); **F02M 21/04** (2006.01); **F02M 27/02** (2006.01)

CPC (source: EP KR)
C10G 29/00 (2013.01 - EP); **C10L 1/00** (2013.01 - EP KR); **F02M 21/04** (2013.01 - KR); **F02M 27/02** (2013.01 - EP)

Citation (search report)
• [YA] US 6167871 B1 20010102 - KUMAGAI NOBUYUKI [JP], et al
• [A] US 6297187 B1 20011002 - YAMAGATA KATSUYOSHI [JP]
• [A] JP S4921527 A 19740226 & JP H11153319 A 19990608 - KUMAGAI NOBUYUKI, et al & JP 2000000472 A 20000107 - YAMAGATA KATSUYOSHI
• [XAY] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 06 31 July 1995 (1995-07-31)
• [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 04 30 April 1999 (1999-04-30)
• [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 16 8 May 2001 (2001-05-08)
• [A] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 07 31 August 1995 (1995-08-31)
• See references of WO 03089774A1

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Designated contracting state (EPC)
FR IT

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EP 1503069 A1 20050202; **EP 1503069 A4 20060607**; AU 2003231374 A1 20031103; CN 1646801 A 20050727;
JP WO2003089774 A1 20050825; KR 20050007317 A 20050117; WO 03089774 A1 20031030

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