

Title (en)  
EXHAUST EMISSION CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINES

Title (de)  
ABGASKONTROLLVORRICHTUNG FÜR VERBRENNUNGSKRAFTMASCHINE

Title (fr)  
DISPOSITIF DE REGULATION DE L'EMISSION DES GAZ D'ECHAPPEMENT POUR MOTEURS A COMBUSTION INTERNE

Publication  
**EP 0831211 A4 20060614 (EN)**

Application  
**EP 96914422 A 19960524**

Priority  
• JP 9601382 W 19960524  
• JP 12689695 A 19950525

Abstract (en)  
[origin: WO9637691A1] An exhaust emission control device wherein a thin steel plate (22) carrying catalytic metals is disposed substantially at the central portion of a cross section of an exhaust pipe (5) extending from an exhaust port (4) of an engine (3). Specifically, since the catalytic metals are disposed substantially at the central portion of the cross section of the exhaust pipe (5) which has a high exhaust gas temperature, an exhaust gas controlling action is sufficiently performed and moreover the production cost of the device can be reduced.

IPC 8 full level  
**F01N 3/20** (2006.01); **F01N 3/24** (2006.01); **F01N 3/28** (2006.01); **F01N 7/08** (2006.01); **F01N 13/08** (2010.01); **F01N 7/02** (2006.01)

CPC (source: EP KR)  
**F01N 1/08** (2013.01 - KR); **F01N 3/28** (2013.01 - EP); **F01N 3/2807** (2013.01 - EP); **F01N 13/0097** (2014.06 - EP); **F01N 2260/10** (2013.01 - EP); **F01N 2470/02** (2013.01 - EP); **F01N 2470/24** (2013.01 - EP)

Citation (search report)  
• [YA] US 4206177 A 19800603 - FUJITA TAKEO [JP], et al  
• [X] EP 0441062 A1 19910814 - NIPPON CATALYTIC CHEM IND [JP]  
• [DY] PATENT ABSTRACTS OF JAPAN vol. 015, no. 257 (M - 1130) 28 June 1991 (1991-06-28)  
• [Y] PATENT ABSTRACTS OF JAPAN vol. 003, no. 140 (M - 081) 20 November 1979 (1979-11-20)  
• See references of WO 9637691A1

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Designated contracting state (EPC)  
IT

DOCDB simple family (publication)  
**WO 9637691 A1 19961128**; CN 1080370 C 20020306; CN 1184523 A 19980610; EP 0831211 A1 19980325; EP 0831211 A4 20060614; EP 0831211 B1 20100929; JP 3614206 B2 20050126; JP H08319824 A 19961203; KR 100401948 B1 20040324; KR 19980702977 A 19980905; TW 371013 U 19990921

DOCDB simple family (application)  
**JP 9601382 W 19960524**; CN 96193993 A 19960524; EP 96914422 A 19960524; JP 12689695 A 19950525; KR 19970706385 A 19970912; TW 85220080 U 19960524