

Title (en)  
Exhaust gas treatment apparatus

Title (de)  
Abgasbehandlungsvorrichtung

Title (fr)  
Appareil de traitement des gaz d'échappement

Publication  
**EP 2305976 A2 20110406 (EN)**

Application  
**EP 10251611 A 20100917**

Priority  
JP 2009220042 A 20090925

Abstract (en)  
There is provided an exhaust gas treatment apparatus (1a) including: a tubular body (10) and a discharge electrode (12) disposed inside the tubular body (10). The tubular body (10) has a shape where an inner diameter of the tubular body (10) is gradually reduced in a predetermined range from a face (25) which contains a central point (24x) of generation of corona discharge (24) generated by the discharge electrode (12) and which is perpendicular to the flow passage toward the downstream side (44) of the flow passage.

IPC 8 full level  
**F01N 3/01** (2006.01); **F01N 3/027** (2006.01)

CPC (source: EP US)  
**B03C 3/06** (2013.01 - EP US); **B03C 3/41** (2013.01 - EP US); **B03C 3/49** (2013.01 - EP US); **B03C 3/70** (2013.01 - EP US); **F01N 3/01** (2013.01 - EP US); **F01N 3/0275** (2013.01 - EP US); **B03C 2201/10** (2013.01 - EP US); **B03C 2201/12** (2013.01 - EP US); **B03C 2201/30** (2013.01 - EP US)

Citation (applicant)

- JP 2001041024 A 20010213 - ISUZU CERAMICS RES INST
- JP 2005320955 A 20051117 - DENSO CORP
- JP 2005324094 A 20051124 - DENSO CORP
- JP 2006029267 A 20060202 - DENSO CORP

Cited by  
WO2014204310A1; CN111485975A; CN112771255A; NL2011012C2; US9657617B2; WO2013045248A1; WO2014114408A1; US9217356B2

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 SE SI SK SM TR

Designated extension state (EPC)  
BA ME RS

DOCDB simple family (publication)  
**EP 2305976 A2 20110406**; JP 2011069268 A 20110407; US 2011072786 A1 20110331

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**EP 10251611 A 20100917**; JP 2009220042 A 20090925; US 86907510 A 20100826