

Title (en)
Particulate filter for diesel engines

Title (de)
Partikelfilter für Dieselmotoren

Title (fr)
Filtres à particules pour moteurs diesel

Publication
EP 1316687 A1 20030604 (EN)

Application
EP 02079020 A 20020930

Priority
GB 0128772 A 20011203

Abstract (en)
A particulate filter (10) for positioning in an exhaust system (12) from a diesel engine (14) comprising a housing (20); the housing having a first end (22) with an opening (26) for the flow of exhaust gases, and a second end (24) with an opening (28) for the flow of exhaust gases; and a filter substrate (30) positioned inside the housing between the opening in the first end and the opening in the second end, the filter substrate having a first surface (40) open to the opening in the first end but substantially closed from the opening in the second end, and a second surface (42) open to the opening in the second end but substantially closed from the opening in the first end; wherein the first surface and the second surface are capable of trapping ash material; and wherein the opening in the first end is substantially identical to the opening in the second end such that the housing can be positioned in the exhaust system either with the opening in the first end allowing flow of exhaust gases into the housing from the diesel engine, or with the opening in the second end allowing flow of exhaust gases into the housing from the diesel engine. Ash removal from the filter substrate can be easily achieved by reversing the position of the particulate filter relative to the exhaust system. <IMAGE>

IPC 1-7
F01N 3/022

IPC 8 full level
F01N 3/022 (2006.01); **F01N 3/021** (2006.01); **F01N 3/023** (2006.01)

CPC (source: EP)
F01N 3/0217 (2013.01); **F01N 3/0222** (2013.01); **F01N 3/0233** (2013.01); **F01N 2330/06** (2013.01)

Citation (search report)
• [X] US 2001017026 A1 20010830 - PETERS BRUCE [DE], et al
• [A] DE 19708549 A1 19980910 - GIFHORN ANDREAS [DE], et al
• [A] EP 0603392 A1 19940629 - SUMITOMO ELECTRIC INDUSTRIES [JP]

Cited by
GR20050100558A; CN113882935A; US7935163B2; WO2007052084A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 1316687 A1 20030604; GB 0128772 D0 20020123

DOCDB simple family (application)
EP 02079020 A 20020930; GB 0128772 A 20011203