

Title (en)

Method of oxidizing soot and reducing soot accumulation in a diesel fuel combustion after treatment system

Title (de)

Verfahren zur Oxidation von Ruß und zum Vermindern der Akkumulation von Ruß in einem Nachbehandlungssystem für die Dieselmotorenverbrennung

Title (fr)

Procédé d'oxydation de la suie et de réduction de l'accumulation de suie dans un appareil de post-traitement de combustion de diesel

Publication

EP 1657291 A1 20060517 (EN)

Application

EP 06000569 A 20030922

Priority

- EP 03021144 A 20030922
- US 27161802 A 20021016

Abstract (en)

A method of reducing the negative effects of accumulation of ash in a diesel fuel combustion system includes supplying a diesel fuel having an additive that includes a manganese compound to a diesel fuel combustion system. The combustion system includes a catalyzed diesel particulate filter or, alternatively, a continuously regenerating technology diesel particulate filter. The fuel is then combusted in the combustion system to produce at least one byproduct that includes the manganese compound. The manganese compound is supplied in an amount effective to complex with the combustion byproduct.

IPC 8 full level

B01D 46/42 (2006.01); **C10L 1/12** (2006.01); **C10L 1/18** (2006.01); **C10L 1/182** (2006.01); **C10L 1/188** (2006.01); **C10L 1/24** (2006.01); **C10L 1/26** (2006.01); **C10L 1/30** (2006.01); **C10L 10/00** (2006.01); **C10L 10/02** (2006.01); **C10L 10/04** (2006.01); **C10L 10/06** (2006.01); **F01N 3/02** (2006.01); **F01N 3/24** (2006.01)

CPC (source: EP US)

C10L 1/12 (2013.01 - EP US); **C10L 1/1814** (2013.01 - EP US); **C10L 1/188** (2013.01 - EP US); **C10L 1/301** (2013.01 - EP US); **C10L 1/305** (2013.01 - EP US); **C10L 10/02** (2013.01 - EP US); **C10L 10/04** (2013.01 - EP US); **C10L 10/06** (2013.01 - EP US)

Citation (search report)

- [X] EP 1215272 A1 20020619 - ETHYL CORP [US]
- [DA] US 4568357 A 19860204 - SIMON GERALD M [US]
- [A] US 4035530 A 19770712 - STOLDT STEPHEN H
- [A] US 4664677 A 19870512 - DORER CASPER J JR [US], et al
- [ED] US 2003226312 A1 20031211 - ROOS JOSEPH W [US], et al

Cited by

SG151158A1; EP1541853A3; US2020072102A1; US10774708B2; US8486853B2; US8683787B2; US11441458B2; US8609578B2; US10774722B2; US11401855B2

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

EP 1411106 A1 20040421; AU 2003241647 A1 20040506; CA 2438157 A1 20040416; CA 2438157 C 20071204; CN 1279149 C 20061011; CN 1504547 A 20040616; EP 1657291 A1 20060517; JP 2004138050 A 20040513; SG 126731 A1 20061129; US 2004074230 A1 20040422

DOCDB simple family (application)

EP 03021144 A 20030922; AU 2003241647 A 20030828; CA 2438157 A 20030825; CN 200310101435 A 20031016; EP 06000569 A 20030922; JP 2003315849 A 20030908; SG 200305665 A 20030908; US 27161802 A 20021016