

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

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Application

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Priority

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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

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CPC (source: EP US)

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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

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

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