

Title (en)
CATALYZED PARTICULATE OXIDIZER FOR REDUCING PARTICULATE EMISSIONS FROM A DIESEL ENGINE AND METHOD

Title (de)
KATALYSIERTES PARTIKELFÖRMIGES OXIDATIONSMITTEL ZUR REDUZIERUNG VON PARTIKELEMISSIONEN EINES DIESELMOTORS SOWIE ENTSPRECHENDES VERFAHREN

Title (fr)
COMBURANT PARTICULAIRE CATALYSE SERVANT A REDUIRE LES EMISSIONS PARTICULAIRES D'UN MOTEUR DIESEL ET PROCEDE ASSOCIE

Publication
EP 1163043 A4 20030212 (EN)

Application
EP 99959082 A 19991123

Priority
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• US 11014898 P 19981124

Abstract (en)
[origin: WO0030739A1] Operation of a diesel engine with low particulate emissions is achieved through the use of a catalyzed particulate oxidizer (14) designed to cause a large number of impacts of particulates with catalyzed surfaces. The catalyzed particulate oxidizer (14) can be precatalyzed or uncatalyzed initially, but catalyzed during use by a catalyst fed prior to or after combustion in the engine. Preferably, the fuel will contain a catalytic additive (29), such as diphenyl cyclooctadiene platinum (II) or platinum acetylacetonate and/or a fuel soluble organo-metallic compound of cerium, iron, copper or manganese. Alternatively, the platinum group metal or other catalytic compound can be added to the exhaust or combustion air. The catalyzed particulate oxidizer has a plurality of parallel plates having catalyzed undulating surfaces provided to create a large number of contact points for the particulates in the exhaust gas.

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CPC (source: EP)
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Citation (search report)
• [X] US 4942020 A 19900717 - WHITTENBERGER WILLIAM A [US], et al
• [X] US 4725411 A 19880216 - CORNELISON RICHARD C [US]
• See also references of WO 0030739A1

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DOCDB simple family (application)
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