

Title (en)
REDUCED-EMISSIONS COMBUSTION UTILIZING MULTIPLE-COMPONENT METALLIC COMBUSTION CATALYST

Title (de)
VERBRENNUNG MIT REDUZIERTEN EMISSIONEN UNTER VERWENDUNG EINES AUS MEHREREN BAUTEILEN BESTEHENDEN
VERBRENNUNGSKATALYSATORS AUS METALL

Title (fr)
COMBUSTION A EMISSIONS REDUITES OBTENUE AU MOYEN D'UN CATALYSEUR DE COMBUSTION METALLIQUE A COMPOSANTS
MULTIPLES

Publication
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Application
EP 06718828 A 20060119

Priority

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- US 3837105 A 20050119

Abstract (en)
[origin: US2005188605A1] Diesel fuels containing low concentrations of specific bimetallic or trimetallic fuel-borne catalysts reduce particulates and other emissions without the use of after treatment devices, such as filters or catalysts, e.g., diesel particulate filters (DPF's) or diesel oxidation catalysts (DOC's) in the case of diesel engines. By utilizing a fuel containing a fuel-soluble catalyst comprised of platinum and at least one additional metal comprising cerium and/or iron, production of pollutants of the type generated by incomplete combustion is reduced. Preferred fuel borne catalyst levels will be low, e.g., from 0.05 to 0.5 ppm for platinum and 3 to 8 ppm for cerium and/or iron, thereby providing effective engine out emissions reductions without any aftertreatment device. Performance of lightly catalyzed aftertreatment devices will be improved with the subject invention.

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JP 2008526510 A 20080724; JP 5020830 B2 20120905; KR 101077015 B1 20111026; KR 20070094861 A 20070921;
MX 2007008818 A 20070927; NO 20074181 L 20071012; RU 2007129120 A 20090227; SG 143272 A1 20080627;
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