

Title (en)
REDUCED-EMISSIONS COMBUSTION UTILIZING MULTIPLE-COMPONENT METALLIC COMBUSTION CATALYST AND LIGHTLY CATALYZED DIESEL OXIDATION CATALYST

Title (de)
VERBRENNUNG MIT REDUZIERTEN EMISSIONEN ÜBER EINEN MEHRKOMPONENTEN-VERBRENNUNGSKATALYSATOR AUS METALL UND EINEN KATALYSATOR ZUR OXIDATION LEICHT KATALYSIERTEN DIESELKRAFTSTOFFS

Title (fr)
COMBUSTION A EMISSIONS REDUITES UTILISANT UN CATALYSEUR METALLIQUE DE COMBUSTION MULTICOMPOSANT ET CATALYSEUR D'OXYDATION POUR DIESEL LEGEREMENT CATALYSE

Publication
EP 1856382 A4 20110126 (EN)

Application
EP 06718826 A 20060119

Priority
• US 2006001813 W 20060119
• US 3828705 A 20050119

Abstract (en)
[origin: US2005160724A1] An improved diesel operation system employs a lightly diesel oxidation catalyst (DOC), preferably with a platinum containing fuel borne catalyst (FBC) in the fuel. The DOC is at least partially lightly catalyzed with precious metal catalyst, e.g., platinum group metal, having a metal loading of from about 3 to 15 grams per cubic foot to minimize formation of NO₂ in the exhaust gas. 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 discharging excessive amounts of metal catalysts or NO₂ to the atmosphere.

IPC 8 full level
F01N 3/00 (2006.01); **F02M 27/02** (2006.01); **C10L 1/10** (2006.01); **C10L 1/30** (2006.01); **C10L 10/14** (2006.01); **F23C 6/04** (2006.01); **F23C 13/00** (2006.01); **F23J 7/00** (2006.01); **F23K 5/08** (2006.01)

CPC (source: EP KR US)
C10L 1/10 (2013.01 - EP KR US); **C10L 1/301** (2013.01 - EP US); **C10L 10/02** (2013.01 - EP US); **C10L 10/06** (2013.01 - EP US); **F01N 3/00** (2013.01 - KR); **F01N 3/023** (2013.01 - EP US); **F01N 3/035** (2013.01 - EP US); **F01N 3/10** (2013.01 - EP US); **F02M 25/00** (2013.01 - EP US); **F02M 27/02** (2013.01 - EP US); **F23J 7/00** (2013.01 - EP US); **F23K 5/08** (2013.01 - EP US); **C10L 1/1241** (2013.01 - EP US); **C10L 1/1814** (2013.01 - EP US); **C10L 1/1881** (2013.01 - EP US); **C10L 1/1886** (2013.01 - EP US); **C10L 1/189** (2013.01 - EP US); **C10L 1/305** (2013.01 - EP US); **F01N 2430/04** (2013.01 - EP US); **F01N 2510/065** (2013.01 - EP US); **F02B 3/06** (2013.01 - EP US); **F23K 2300/103** (2020.05 - EP US); **F23K 2900/05081** (2013.01 - EP US)

Citation (search report)
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• See references of WO 2006078762A1

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US 2005160724 A1 20050728; AU 2006206466 A1 20060727; BR PI0606584 A2 20090707; CA 2595303 A1 20060727; CN 101160455 A 20080409; CN 101160455 B 20130327; EP 1856382 A1 20071121; EP 1856382 A4 20110126; HK 1114148 A1 20081024; JP 2008526509 A 20080724; KR 101010104 B1 20110124; KR 20070100365 A 20071010; MX 2007008820 A 20070927; WO 2006078762 A1 20060727; ZA 200706581 B 20080925

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