Title (en)

METHOD AND COMPOSITION FOR REDUCING EMISSIONS FROM A GASOLINE ENGINE EQUIPPED WITH A THREE-WAY CATALYTIC CONVERTER

Title (de)

VERFAHREN UND ZUSAMMENSETZUNG ZUR VERMINDERUNG VON EMISSIONEN EINES MIT EINEM DREIWEGEKATALYSATOR AUSGERÜSTETEN BENZINMOTORS

Title (fr)

PROCEDE ET COMPOSITION PERMETTANT DE REDUIRE LES EMISSIONS D'UN MOTEUR A ESSENCE EQUIPE D'UN CONVERTISSEUR CATALYTIQUE A TROIS VOIES

Publication

EP 0970165 A4 20010124 (EN)

Application

EP 98908457 A 19980130

Priority

- US 9801728 W 19980130
- US 79229797 A 19970131

Abstract (en)

[origin: WO9833871A1] Gasoline engines equipped with three-way catalysts emit less NOx, hydrocarbons and carbon monoxide when operated on fuels containing a bimetallic catalyst comprising rhodium acetylacetonate and a fuel-soluble platinum compound such as diphenyl cyclooctadiene platinum(II) or platinum acetyl acetonate. The total metals in the additive will be dosed at a concentration of less than about 2 ppm (milligrams of metal to liter of gasoline) based on the amount of gasoline burned in the engine. Preferred dosages will be from about 0.15 to about 1.5 ppm, with a ratio of platinum to rhodium of from about 3:1 to about 15:1.

IPC 1-7

C10L 1/30; C10L 1/18; C10L 1/14; C10L 10/02; C10L 10/06

IPC 8 full level

C10L 1/14 (2006.01); **C10L 1/18** (2006.01); **C10L 10/02** (2006.01); **C10L 10/06** (2006.01); C10L 1/16 (2006.01); C10L 1/30 (2006.01)

CPC (source: EP US)

C10L 1/14 (2013.01 - EP US); **C10L 1/1814** (2013.01 - EP US); **C10L 10/02** (2013.01 - EP US); **C10L 10/06** (2013.01 - EP US); C10L 1/1608 (2013.01 - EP US); C10L 1/1616 (2013.01 - EP US); C10L 1/1824 (2013.01 - EP US); C10L 1/305 (2013.01 - EP US)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 9833871A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9833871 A1 19980806; AT E283333 T1 20041215; DE 69827778 D1 20041230; DE 69827778 T2 20051110; EP 0970165 A1 20000112; EP 0970165 A4 20010124; EP 0970165 B1 20041124; ES 2232936 T3 20050601; TW 499475 B 20020821; US 2001001354 A1 20010524

DOCDB simple family (application)

US 9801728 W 19980130; AT 98908457 T 19980130; DE 69827778 T 19980130; EP 98908457 A 19980130; ES 98908457 T 19980130; TW 87101108 A 19980202; US 75638301 A 20010108