

Title (en)
GLYOXAL AS FUEL ADDITIVE

Title (de)
GLYOXAL ALS BRENNSTOFFZUSATZ

Title (fr)
GLYOXAL UTILISE COMME ADDITIF POUR CARBURANT

Publication
EP 1124915 B1 20050202 (EN)

Application
EP 99948796 A 19990920

Priority
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• EP 9906949 W 19990920

Abstract (en)
[origin: WO0017290A1] Glyoxal in an aqueous solution is used in a fuel additive in order to reduce pollutants in the exhaust gases of gasoline and diesel engines. It is sufficient to add glyoxal in aqueous solution to gasoline in the dilution in the ratio of 1:1.000 to 1:20.000 and higher in order to obtain a reduction of unburned hydrocarbons and carbon monoxide in vehicles with catalytic converters at idle and at increased idle of almost 100 %. Esterified aliphats and polyethyleneglycol are added as emulsifiers and solubilizers. Additionally, glyoxal can be used in form of its acetals and hemiacetals with the resultant product being added to the fuel in combustion engines in order to reduce the pollutant emission and carbon particles/deposits.

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IPC 8 full level
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