

Title (en)

GASOLINE ADDITIVE COMPOSITION FOR IMPROVED ENGINE PERFORMANCE

Title (de)

BENZINZUSATZZUSAMMENSETZUNG FÜR VERBESSERTE MOTORLEISTUNG

Title (fr)

COMPOSITION D'ADDITIF POUR ESSENCE POUR AMÉLIORER LES PERFORMANCES D'UN MOTEUR

Publication

**EP 4345150 A1 20240403 (EN)**

Application

**EP 23195748 A 20230906**

Priority

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- US 202318361286 A 20230728

Abstract (en)

The present disclosure provides fuel additives including quaternary ammonium salt additive(s) and Mannich detergent additive(s) effective to improve engine performance in both port fuel injected and gasoline direct injection engines.

IPC 8 full level

**C10L 1/14** (2006.01); **C10L 1/198** (2006.01); **C10L 1/222** (2006.01); **C10L 1/224** (2006.01); **C10L 10/04** (2006.01); **C10L 10/06** (2006.01)

CPC (source: EP)

**C10L 1/14** (2013.01); **C10L 1/1985** (2013.01); **C10L 1/221** (2013.01); **C10L 1/224** (2013.01); **C10L 1/238** (2013.01); **C10L 1/2383** (2013.01); **C10L 10/04** (2013.01); **C10L 10/06** (2013.01); **C10L 2200/0423** (2013.01); **C10L 2270/023** (2013.01)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

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KH MA MD TN

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