

Title (en)

COMPOSITION AND METHOD FOR PREVENTING OR REDUCING LOW SPEED PRE-IGNITION IN SPARK-IGNITED INTERNAL COMBUSTION ENGINES

Title (de)

ZUSAMMENSETZUNG UND VERFAHREN ZUR VERHINDERUNG ODER VERMINDERUNG DER NIEDRIGGESCHWINDIGKEITSVORZÜNDUNG BEI OTTOMOTOREN

Title (fr)

COMPOSITION ET PROCÉDÉ POUR EMPÊCHER OU RÉDUIRE LE PRÉ-ALLUMAGE À FAIBLE VITESSE DANS DES MOTEURS À COMBUSTION INTERNE À ALLUMAGE PAR ÉTINCELLES

Publication

**EP 3880771 A1 20210922 (EN)**

Application

**EP 19778690 A 20190923**

Priority

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- IB 2019058057 W 20190923

Abstract (en)

[origin: CN113227332A] Disclosed herein is a fuel composition having (1) greater than 50 wt % of a hydrocarbon fuel boiling in the gasoline or diesel range and (2) a minor amount of a low-speed pre-ignition (LSPI)-reducing additive having one or more of an amidine, or a beta-amino alkanol having the structure [Formula see description], wherein R1, R2, R3, and R4 are each independently selected from hydrogen, aromatic ring, and a C1-C20 alkyl group and R5 is hydrogen or an alcohol having the structure -(CH)R6-OH. R6 is hydrogen, a C1-C10 alkyl group, or a C1-C10 alkenyl group, or a salt thereof.

IPC 8 full level

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