

Title (en)

CHEMICAL DELIVERY RATES TO REMOVE CARBON DEPOSITS FROM THE INTERNAL COMBUSTION ENGINE

Title (de)

CHEMIKALIENFREISETZUNGSRATEN ZUR ENTFERNUNG VON KOHLENSTOFFABLAGERUNGEN AUS EINEM VERBRENNUNGSMOTOR

Title (fr)

DÉBITS DE PRODUIT CHIMIQUE POUR ÉLIMINER LES DÉPÔTS DE CARBONE DE MOTEUR À COMBUSTION INTERNE

Publication

**EP 3837059 A1 20210623 (EN)**

Application

**EP 19850539 A 20190812**

Priority

- US 201816103726 A 20180814
- US 2019046160 W 20190812

Abstract (en)

[origin: WO2020036870A1] The present invention relates to the carbon deposit buildup in the internal combustion engine, or more specifically the removal of such carbon from the induction system, combustion chamber, and the exhaust system. The method is one in which a high volumetric flow rate of chemical/chemical mixes are used to remove a greater amount of carbon from the engine. These preferred chemical/chemical mix flow rates are 6 to 9 Gallons per hour, which is approximately 9 times the volumetric flow rate of the industry standard of 1 gallon per hour.

IPC 8 full level

**B05B 12/06** (2006.01); **B08B 3/08** (2006.01); **F02B 77/04** (2006.01); **F02D 9/02** (2006.01); **F02M 35/10** (2006.01); **F02M 65/00** (2006.01)

CPC (source: EP)

**F02B 77/04** (2013.01); **F02M 35/10209** (2013.01); **F02M 35/10242** (2013.01); **F02M 65/00** (2013.01); **F02B 2077/045** (2013.01); **F02D 9/1035** (2013.01)

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 MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2020036870 A1 20200220**; CA 3108649 A1 20200220; EP 3837059 A1 20210623; EP 3837059 A4 20220420

DOCDB simple family (application)

**US 2019046160 W 20190812**; CA 3108649 A 20190812; EP 19850539 A 20190812