

Title (en)

METHOD AND COMPOSITION FOR IMPROVING THE COMBUSTION OF AVIATION FUELS

Title (de)

VERFAHREN UND ZUSAMMENSETZUNG ZUR VERBESSERUNG DER VERBRENNUNG VON FLUGZEUGKRAFTSTOFFEN

Title (fr)

PROCÉDÉ ET COMPOSITION POUR AMÉLIORER LA COMBUSTION DE CARBURANTS D'AVIATION

Publication

**EP 3225679 A3 20171025 (EN)**

Application

**EP 17161582 A 20170317**

Priority

US 201615083964 A 20160329

Abstract (en)

[origin: EP3225679A2] An aviation fuel is formulated with manganese-containing compounds. The composition may include relatively high amounts of manganese up to about 500 mg Mn/l. A manganese-containing additive may reduce the smoke created during the combustion of the aviation fuel. Additionally, the aviation fuel composition may include manganese to improve octane and include a phosphorus-containing scavenger to reduce manganese oxide engine deposits. Further, isooctane is added in order to, with the manganese-containing compound, improve the octane number of the fuel.

IPC 8 full level

**C10L 1/10** (2006.01); **C10L 1/16** (2006.01); **C10L 1/26** (2006.01); **C10L 1/30** (2006.01); **C10L 10/02** (2006.01); **C10L 10/10** (2006.01)

CPC (source: CN EP RU)

**C10L 1/00** (2013.01 - RU); **C10L 1/02** (2013.01 - RU); **C10L 1/04** (2013.01 - CN); **C10L 1/10** (2013.01 - RU); **C10L 1/14** (2013.01 - CN EP); **C10L 1/16** (2013.01 - RU); **C10L 1/30** (2013.01 - RU); **C10L 10/02** (2013.01 - CN EP); **C10L 10/04** (2013.01 - EP); **C10L 10/10** (2013.01 - CN EP); **C10L 1/1608** (2013.01 - EP); **C10L 1/1616** (2013.01 - EP); **C10L 1/2641** (2013.01 - EP); **C10L 1/305** (2013.01 - CN EP); **C10L 2270/023** (2013.01 - EP); **C10L 2270/04** (2013.01 - EP)

Citation (search report)

- [Y] US 2818417 A 19571231 - BROWN JEROME E, et al
- [Y] EP 0609089 A1 19940803 - ETHYL PETROLEUM ADDITIVES INC [US]
- [A] US 4390345 A 19830628 - SOMORJAI GABOR A [US]
- [A] THOMAS A WARD: "3.4.1 Aviation fuel", AEROSPACE PROPULSION SYSTEMS, 1 January 2010 (2010-01-01), pages 202 - 213, XP055375556, Retrieved from the Internet <URL:http://eu.wiley.com/WileyCDA/WileyTitle/productCd-0470824972.html> [retrieved on 20170504]

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)

**EP 3225679 A2 20171004**; **EP 3225679 A3 20171025**; AU 2017201950 A1 20171019; AU 2017201950 B2 20180906; BR 102017006175 A2 20171003; BR 102017006175 B1 20221018; CA 2959884 A1 20170929; CA 2959884 C 20200324; CN 107236577 A 20171010; RU 2017109121 A 20180920; RU 2017109121 A3 20200528; RU 2737165 C2 20201125

DOCDB simple family (application)

**EP 17161582 A 20170317**; AU 2017201950 A 20170322; BR 102017006175 A 20170327; CA 2959884 A 20170303; CN 201710191892 A 20170328; RU 2017109121 A 20170320