

Title (en)

Fuel composition, process of preparing same and method of operating an internal combustion engine using same.

Title (de)

Brennstoffzusammensetzung, Verfahren zu deren Herstellung und Verfahren zum Betreiben eines Verbrennungsmotors mit diesem Brennstoff.

Title (fr)

Combustible, procédé pour sa préparation et procédé de fonctionnement d'un moteur à combustion interne utilisant ce combustible.

Publication

**EP 0026794 A1 19810415 (EN)**

Application

**EP 79103856 A 19791008**

Priority

EP 79103856 A 19791008

Abstract (en)

This invention provides a novel synthetic fuel composition suitable for use in internal combustion engines. The fuel composition comprises from about 40 to 95% by volume of a primary alcohol having 1-4 carbon atoms, from about 5 to 60% by volume of an alcohol derivative having the general formula <CHEM> wherein R is -CH<sub>3</sub>, -C<sub>2</sub>H<sub>5</sub>, -C<sub>3</sub>H<sub>7</sub>, or -C<sub>4</sub>H<sub>9</sub>, and R<sub>1</sub> is hydrogen or -CH<sub>3</sub>. The fuel composition can be prepared by reacting a primary alcohol having 1-4 carbon atoms with oxygen or air to form an alcohol derivative which is an aldehyde and reacting the aldehyde with an additional portion of the alcohol to form the product, comprising the alcohol, the alcohol derivative and the aldehyde.

IPC 1-7

**C10L 1/02**

IPC 8 full level

**C10L 1/02** (2006.01)

CPC (source: EP)

**C10L 1/02** (2013.01)

Citation (search report)

- FR 2135251 A1 19721215 - OESTERR HIAG WERKE AG
- DE 801275 C 19501228 - BASF AG
- FR 868232 A 19411224
- US 2691685 A 19541012
- GB 202264 A 19240605 - HENRI TERRISSE
- US 2691684 A 19541012
- DE 822031 C 19511122 - BASF AG
- DE 421814 C 19251119 - HOECHST AG

Cited by

FR2544738A1; GB2187185A

Designated contracting state (EPC)

AT BE CH DE FR GB IT LU NL SE

DOCDB simple family (publication)

**EP 0026794 A1 19810415**

DOCDB simple family (application)

**EP 79103856 A 19791008**