

Title (en)
Lead-free high performance gasoline.

Title (de)
Bleifreies Hochleistungsbenzin.

Title (fr)
Essence sans plomb à haute performance.

Publication
EP 0530745 A1 19930310 (EN)

Application
EP 92114918 A 19920901

Priority
JP 25464591 A 19910905

Abstract (en)
A lead-free high performance gasoline whose characteristics are within the extent of the standards for racing car gasoline and which can easily cope with annual slight changes in the standards. Particularly, this invention provides a lead-free high performance gasoline which contains (1) toluene in an amount of from 50 to 70% by volume, n-heptane in an amount of from 2 to 10% by volume, isopentane in an amount of from 5 to 25% by volume and, if necessary, direct distillation light naphtha in an amount of from 10 to 30% by volume and a C4 fraction of distillate in an amount of from 2 to 5% by volume or (2) toluene in an amount of from 45 to 60% by volume, methyl-tert-butyl ether in an amount of from 10 to 20% by volume, n-heptane in an amount of from 10 to 20% by volume, isopentane in an amount of from 5 to 15% by volume and a C4 fraction of distillate in an amount of from 2 to 5% by volume, wherein the lead-free high performance gasoline satisfies the conditions of: density at 15 DEG C \leq 0.81 g/cm³; 97 < research octane number \leq 101; and Reid vapor pressure \geq 0.4 kg/cm². By changing blending ratio of each component in the above composition (1) or (2) within the above range, the gasoline of this invention can easily cope with annual changes in the fuel standards for rallies and races without reducing output characteristics.

IPC 1-7
C10L 1/06

IPC 8 full level
C10L 1/02 (2006.01); **C10L 1/04** (2006.01); **C10L 1/06** (2006.01); **C10L 1/182** (2006.01); **C10L 1/185** (2006.01); **C10L 10/10** (2006.01)

CPC (source: EP)
C10L 1/023 (2013.01); **C10L 1/06** (2013.01); **F02B 2275/18** (2013.01)

Citation (search report)
• [A] US 5004850 A 19910402 - WILSON EWERT J A [US]
• [A] US 4812146 A 19890314 - JESSUP PETER J [US]
• [A] GB 630245 A 19491010 - ANGLO IRANIAN OIL CO LTD, et al
• [A] DE 1041727 B 19581023 - BATAAFSCHE PETROLEUM

Cited by
US6353143B1; WO0029515A3; US7052597B2; WO02077126A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0530745 A1 19930310; **EP 0530745 B1 19950322**; DE 69201768 D1 19950427; DE 69201768 T2 19950914; JP H0565489 A 19930319

DOCDB simple family (application)
EP 92114918 A 19920901; DE 69201768 T 19920901; JP 25464591 A 19910905