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(71) Applicant:
**KABUSHIKI KAISHA TOYOTA CHUO
KENKYUSHO
Aichi-gun Aichi-ken, 480-11 (JP)**

(72) Inventors:
• **Nakakita, Kiyomi**
Nishikamo-gun, Aichi-ken (JP)
• **Akihama, Kazuhiro**
Kitaharayama-cho, Owariasahi-shi, Aichi (JP)
• **Mandokoro, Yoshiyuki**
Nisshin-shi, Aichi-ken (JP)
• **Ogawa, Tadao**
Kasugai-shi, Aichi-ken (JP)

(74) Representative:
Blumbach, Kramer & Partner GbR
Radeckestrasse 43
81245 München (DE)

(54) **Diesel fuel composition for reduced particulate emission**

(57) A diesel fuel composition for reduced particulate emission has a ¹³C nuclear magnetic resonance (NMR) spectrum in which the ratio of the total area of a group of peaks with a chemical shift in the range of 33 to 50 ppm with respect to the total area of the group of peaks with a chemical shift in the range of 0 to 50 ppm is equal to or less than 30%, and preferably equal to or less than 20%. The region of the peaks with a chemical shift in the range of 33 to 50 ppm includes peaks due to at least a tertiary or quaternary carbon atom within saturated hydrocarbon portions with a branching structure. This diesel fuel composition has a reduced content of hydrocarbons with a branching structure and aromatic hydrocarbons, and is able to positively reduce the emission of particulate matter.

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PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 45 of the European Patent Convention shall be considered, for the purposes of subsequent proceedings, as the European search report

EP 98 10 1355

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	US H1553 H (PEDERSEN MICHAEL J) 2 July 1996 (1996-07-02) * claims 1,2 *	1,3-5	C10L1/08
X	WO 94 20593 A (MOBIL OIL CORP) 15 September 1994 (1994-09-15) * claim 1 * * page 3, line 21 - page 4, line 3 *	1,3-5	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			C10L
INCOMPLETE SEARCH			
The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims. Claims searched completely : Claims searched incompletely : Claims not searched : Reason for the limitation of the search: see sheet C			
Place of search		Date of completion of the search	Examiner
THE HAGUE		8 November 1999	De Herdt, O
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03.82 (P04C07)



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**INCOMPLETE SEARCH
SHEET C**

Application Number
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Claim(s) searched incompletely:
1 to 5

Reason for the limitation of the search:

Present claims 1 to 5 relate to a product defined (inter alia)
by reference to the following parameter(s):
P1:13C nuclear magnetic resonance spectrum with ratio of the total area
of a group of peaks with a chemical shift in the range of 33 ppm to 50
ppm with respect to the total area of a group of peaks with a chemical
shift in the range of 0 ppm to 50 ppm

The use of these parameters in the present context is considered to lead
to a lack of clarity within the meaning of Article 84 EPC. It is
impossible to compare the parameters the applicant has chosen to employ
with what is set out in the prior art. The lack of clarity is such as to
render a meaningful complete search impossible. Consequently, the search
has been restricted to: diesel fuels with reduced particulate emission
having a aromatic hydrocarbon content of less than 30 % and a polycyclic
aromatic compounds content of less than 5%

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

08-11-1999

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US H1553	H	02-07-1996	NONE	
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			AU 6442994 A	26-09-1994
			DE 69415512 D	04-02-1999
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