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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR PRODUCING A SATURATED HYDROCARBON COMPONENT

(57) Abstract: The invention relates to a process for producing high-quality saturated base oil or a base oil component based on hydrocarbons. The process of the invention comprises two main steps, the oligomerization and deoxygenation. A biological starting material containing unsaturated carboxylic acids and/or esters of carboxylic acids is preferably used as the feedstock.



WO 2007/068800 A3

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A. CLASSIFICATION OF SUBJECT MATTER					
INV.	C10G3/00	C10G45/02	C10G50/00	C10G57/02	C10G69/12
	C07C1/207	C10M105/00	C10M109/00		

B. FIELDS SEARCHED

C10G C07C C10M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 444 143 A (MORRIS THOMAS A JR ET AL) 13 May 1969 (1969-05-13) column 1, line 36 - column 2, line 62; claim 1; examples 1,2 -----	1-17
X	US 4 133 841 A (COSYNS JEAN ET AL) 9 January 1979 (1979-01-09) column 1, line 65 - column 2, line 3; claim 1; figures 1-3 -----	1-18
X	DE 10 24 238 B (DYNAMIT NOBEL AG) 13 February 1958 (1958-02-13) column 1, line 1 - line 49; claim 1 ----- -/--	1-17

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents :

P document published prior to the international filing date but later than the priority date claimed

'&' document member of the same patent family

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INTERNATIONAL SEARCH REPORT

International application No

PCT/FI2006/050553

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 299 979 A (MURPHY EDWARD J) 10 November 1981 (1981-11-10) column 1, line 8 - column 2, line 27; claims 1,3 column 5, line 48 - line 60 -----	1-17
A	EP 1 396 531 A2 (FORTUM OYJ [FI] NESTE OIL OYJ [FI]) 10 March 2004 (2004-03-10) the whole document -----	1-18
A	US 2004/055209 A1 (JAKKULA JUHA [FI] ET AL) 25 March 2004 (2004-03-25) the whole document -----	1-18
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A	WO 96/17902 A (MOBIL OIL CORP [US]) 13 June 1996 (1996-06-13) the whole document -----	19-25
A	GB 1 193 220 A (SHELL INT RESEARCH [NL]) 28 May 1970 (1970-05-28) the whole document -----	19-25

INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI2006/050553

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-18

process for producing a saturated hydrocarbon component comprising oligomerisation and deoxygenation and use of this process for producing gasoline, solvent and/or diesel fractions

2. claims: 19-25

a base oil containing at least 90 wt.% of saturated hydrocarbons, 20 - 90 wt.% of mononaphthenes, no more than 20 wt.% of linear paraffins and at least 50 wt.% of the saturated hydrocarbons are within the carbon number range of no more than 9 carbons

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/FI2006/050553

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