



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 20 78 19 70

Classification of the application (IPC):

C10M 133/56, C10M 137/10, C10M 139/00, C10M 159/22, C10M 141/06, C10M 163/00, C10M 169/04, C10N 10/04, C10N 20/04, C10N 30/04, C10N 40/25, C10N 30/02

Technical fields searched (IPC):

C10M, C10N

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	EP 3140378 A1 (EXXONMOBIL RES & ENG CO [US]) 15 March 2017 (2017-03-15) * claim 1; figure 9; examples 9, 10 *	1-12
X	US 2018334636 A1 (HOSHINO KOJI [JP] ET AL) 22 November 2018 (2018-11-22) * examples 2, 7-8, comparative examples 4-5; table 1 *	1-4, 7-10
X	US 2018258365 A1 (OHKUBO HITOSHI [JP] ET AL) 13 September 2018 (2018-09-13) * examples 1-14; tables 2-3 *	1-3, 5-8, 10
X	EP 3279294 A1 (IDEMITSU KOSAN CO [JP]) 07 February 2018 (2018-02-07) * example 8; table 1 *	1, 2, 7, 8
X	WO 2018156304 A1 (EXXONMOBIL RES & ENG CO [US]) 30 August 2018 (2018-08-30) * paragraph [00209]; figure 4; examples comparative example 17, 18 *	1-3, 5-7, 10
A	KO ONODERA ET AL: "Engine Oil Formulation Technology to Prevent Pre-ignition in Turbocharged Direct Injection Spark Ignition Engines" SAE 2010 COMMERCIAL VEHICLE ENGINEERING CONGRESS SAE TECHNICAL PAPERS US 01 September 2015 (2015-09-01), vol. 1, DOI: 10.4271/2015-01-2027, ISSN: 0148-7191, XP055642375 * item 5; figures 7, 9; table 4 *	1-10

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 27 October 2022	Examiner Kaluza, Nora
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CATEGORY OF CITED DOCUMENTS

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|---|--|
| X: particularly relevant if taken alone | P: intermediate document |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention |
| A: technological background | E: earlier patent document, but published on, or after the filing date |
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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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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 27-10-2022
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