(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number: **0 217 597**
A3

(12) EUROPEAN PATENT APPLICATION

(21) Application number: **86307185.8**

(22) Date of filing: **18.09.86**

(51) Int. Cl.[4]: **C10M 173/00** , //(C10N30/16,40:20),(C10M173/-00,129:24,137:04)

(30) Priority: **26.09.85 DE 3534226**

(43) Date of publication of application:
08.04.87 Bulletin 87/15

(84) Designated Contracting States:
AT BE CH DE FR GB IT LI LU NL SE

(88) Date of deferred publication of the search report:
08.06.88 Bulletin 88/23

(71) Applicant: **MOBIL OIL CORPORATION**
150 East 42nd Street
New York New York 10017(US)

(72) Inventor: **Huebner, Juergen**
Wientapperweg 9 E
D-2000 Hamburg 55(DE)
Inventor: **Sinning, Gudrun Klara Maria Elisabeth**
Audeich 13
D-2081 Haselau(DE)

(74) Representative: **Cooper, John Anthony et al**
Mobil Court 3 Clements Inn
London WC2A 2EB(GB)

(54) Water-miscible metalworking lubricants.

(57) Water-miscible metalworking lubricants containing formaldehyde-liberating compounds as biocides contain acidic organic phosphoric acid esters instead of conventional carboxylic acids in order to maintain prolonged biocide activity and also to reduce frothing upon dilution to aqueous emulsions or solutions.

EP 0 217 597 A3

European Patent Office

EUROPEAN SEARCH REPORT

Application Number

EP 86 30 7185

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.4)
X	EP-A-0 069 540 (THE STANDARD OIL CO.) * Pages 3-5; page 7, lines 15-30; page 9, lines 15-32; page 10, lines 1-21; claims 6,7 *	1,6	C 10 M 173/00
Y		2-5	
X	DE-A-2 457 887 (SANYO CHEMICAL INDUSTRIES) * Page 1, lines 1-5; page 8, lines 5-35; page 9, line 1 *	1,6	
Y		2-5	
A	EP-A-0 147 760 (HITACHI LTD) * Page 3, line 20 - page 5, line 8; page 5, lines 19-24; page 9, lines 1-6; claims 1,2 *	1-6	

TECHNICAL FIELDS SEARCHED (Int. Cl.4)

C 10 M

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	15-02-1988	HILGENGA K.J.

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 (P0401)