

Title (en)  
Water-soluble lubricant.

Title (de)  
Wasserlösliches Schmiermittel.

Title (fr)  
Lubrifiant soluble dans l'eau.

Publication  
**EP 0071167 A1 19830209 (DE)**

Application  
**EP 82106564 A 19820721**

Priority  
DE 3129244 A 19810724

Abstract (en)  
[origin: CA1191835A] of the disclosure: water-soluble lubricant characterized by a content of compounds of the formula 1 < IMG > (1) wherein R is hydrogen, C1-C12alkyl or C1-C12alkenyl, R1 is C1-C18 alkyl or C2-C18alkenyl, A is a group of the formulae  $-(CH_2CH_2O)_m-$  and  $(CH_3H_6O)_n$  X is an integer of from 0 to 15 and the numerals for m and n are chosen such that the total content of ethylene oxide and/or propylene oxide in the molecule amounts to 10 - 800 alkylene oxide, units.

Abstract (de)  
Wasserlösliche Schmiermittel gekennzeichnet durch einen Gehalt an Verbindungen der Formel 1 <IMAGE> wobei R Wasserstoff, C1-C12-Alkyl oder C1-C12-Alkenyl, R1 C1-C18-Alkyl oder C2-C18-Alkenyl, A eine Gruppe der Formeln  $-(CH_2CH_2O)_m-$  und  $(C_3H_6O)_n$  X eine Zahl von 0 bis 15 bedeutet und die Zahlenwerte für m und n so gewählt sind, daß der Gesamtgehalt an Ethylenoxid und/oder Propylenoxid im Molekül 10 bis 800 Alkylenoxid-Einheiten beträgt.

IPC 1-7  
**C10M 3/04**; **C10M 3/22**

IPC 8 full level  
**C10M 145/26** (2006.01); **C10M 173/02** (2006.01); **C10N 30/06** (2006.01); **C10N 40/22** (2006.01)

CPC (source: EP US)  
**C10M 173/02** (2013.01 - EP US); **C10M 2201/02** (2013.01 - EP US); **C10M 2209/104** (2013.01 - EP US); **C10M 2209/105** (2013.01 - EP US); **C10M 2209/107** (2013.01 - EP US); **C10N 2040/20** (2013.01 - EP US); **C10N 2050/01** (2020.05 - EP US)

Citation (search report)

- [A] DE 2104202 A1 19720810
- [A] EP 0041688 A1 19811216 - HOECHST AG [DE]
- [A] US 2692859 A 19541026 - TALLEY SAMUEL K, et al

Cited by  
US5100989A; US6293665B1

Designated contracting state (EPC)  
BE DE FR GB IT NL

DOCDB simple family (publication)  
**EP 0071167 A1 19830209**; **EP 0071167 B1 19850327**; BR 8204332 A 19830719; CA 1191835 A 19850813; DE 3129244 A1 19830210; DE 3262788 D1 19850502; JP S5825392 A 19830215; US 4539128 A 19850903

DOCDB simple family (application)  
**EP 82106564 A 19820721**; BR 8204332 A 19820723; CA 408000 A 19820723; DE 3129244 A 19810724; DE 3262788 T 19820721; JP 12776582 A 19820723; US 39971182 A 19820719