

Title (en)  
Biodegradable lubricants and functional fluids

Title (de)  
Biologisch abbaubare Schmieröle und funktionelle Flüssigkeiten

Title (fr)  
Lubrifiants et fluides fonctionnels biodégradables

Publication  
**EP 0558835 B1 20010509 (EN)**

Application  
**EP 92300777 A 19920130**

Priority  
EP 92300777 A 19920130

Abstract (en)  
[origin: EP0558835A1] Certain unhydrogenated oligomers of 1-alkene hydrocarbons have been found to be substantially biodegradable upon exposure to microbiological agents of types widely available in the environment. Thus, in an operation wherein lubricating oil or functional fluid is released into the environment, there is provided for use as the lubricating oil or functional fluid a substantially biodegradable lubricating oil or functional fluid at least 10 percent by volume of which is composed of at least one substantially biodegradable unhydrogenated liquid hydrocarbon of lubricating viscosity formed by oligomerization of 1-alkene hydrocarbon having 6 to 20 carbon atoms in the molecule.

IPC 1-7  
**C10M 107/10**; **C10M 111/04**; **C10M 169/04**; **C10M 171/00**

IPC 8 full level  
**C10M 107/10** (2006.01); **C10M 111/04** (2006.01); **C10M 169/04** (2006.01); **C10M 171/00** (2006.01)

CPC (source: EP)  
**C10M 101/02** (2013.01); **C10M 101/04** (2013.01); **C10M 105/32** (2013.01); **C10M 105/36** (2013.01); **C10M 105/38** (2013.01); **C10M 107/10** (2013.01); **C10M 107/34** (2013.01); **C10M 111/04** (2013.01); **C10M 129/10** (2013.01); **C10M 133/12** (2013.01); **C10M 133/28** (2013.01); **C10M 137/10** (2013.01); **C10M 169/04** (2013.01); **C10M 169/048** (2013.01); **C10M 171/007** (2013.01); **C10M 2203/06** (2013.01); **C10M 2203/1006** (2013.01); **C10M 2203/1025** (2013.01); **C10M 2203/1045** (2013.01); **C10M 2203/1065** (2013.01); **C10M 2203/1085** (2013.01); **C10M 2205/00** (2013.01); **C10M 2205/02** (2013.01); **C10M 2205/026** (2013.01); **C10M 2205/028** (2013.01); **C10M 2205/0285** (2013.01); **C10M 2205/06** (2013.01); **C10M 2205/20** (2013.01); **C10M 2207/023** (2013.01); **C10M 2207/024** (2013.01); **C10M 2207/026** (2013.01); **C10M 2207/027** (2013.01); **C10M 2207/028** (2013.01); **C10M 2207/125** (2013.01); **C10M 2207/129** (2013.01); **C10M 2207/16** (2013.01); **C10M 2207/262** (2013.01); **C10M 2207/2805** (2013.01); **C10M 2207/281** (2013.01); **C10M 2207/282** (2013.01); **C10M 2207/2825** (2013.01); **C10M 2207/283** (2013.01); **C10M 2207/2835** (2013.01); **C10M 2207/284** (2013.01); **C10M 2207/285** (2013.01); **C10M 2207/2855** (2013.01); **C10M 2207/286** (2013.01); **C10M 2207/289** (2013.01); **C10M 2207/34** (2013.01); **C10M 2207/345** (2013.01); **C10M 2207/40** (2013.01); **C10M 2207/401** (2013.01); **C10M 2207/402** (2013.01); **C10M 2207/404** (2013.01); **C10M 2207/4045** (2013.01); **C10M 2209/084** (2013.01); **C10M 2209/103** (2013.01); **C10M 2209/1033** (2013.01); **C10M 2209/104** (2013.01); **C10M 2209/1045** (2013.01); **C10M 2209/1055** (2013.01); **C10M 2209/1065** (2013.01); **C10M 2209/1075** (2013.01); **C10M 2209/1085** (2013.01); **C10M 2209/1095** (2013.01); **C10M 2211/08** (2013.01); **C10M 2215/04** (2013.01); **C10M 2215/06** (2013.01); **C10M 2215/064** (2013.01); **C10M 2215/065** (2013.01); **C10M 2215/066** (2013.01); **C10M 2215/067** (2013.01); **C10M 2215/068** (2013.01); **C10M 2215/08** (2013.01); **C10M 2215/082** (2013.01); **C10M 2215/086** (2013.01); **C10M 2215/102** (2013.01); **C10M 2215/18** (2013.01); **C10M 2215/182** (2013.01); **C10M 2215/222** (2013.01); **C10M 2215/26** (2013.01); **C10M 2215/28** (2013.01); **C10M 2217/023** (2013.01); **C10M 2217/024** (2013.01); **C10M 2217/028** (2013.01); **C10M 2217/046** (2013.01); **C10M 2217/06** (2013.01); **C10M 2219/02** (2013.01); **C10M 2219/022** (2013.01); **C10M 2219/024** (2013.01); **C10M 2219/046** (2013.01); **C10M 2219/068** (2013.01); **C10M 2219/082** (2013.01); **C10M 2219/087** (2013.01); **C10M 2219/088** (2013.01); **C10M 2219/089** (2013.01); **C10M 2219/108** (2013.01); **C10M 2223/04** (2013.01); **C10M 2223/042** (2013.01); **C10M 2223/045** (2013.01); **C10M 2223/065** (2013.01); **C10M 2223/12** (2013.01); **C10M 2225/04** (2013.01); **C10N 2010/00** (2013.01); **C10N 2010/02** (2013.01); **C10N 2010/04** (2013.01); **C10N 2040/00** (2013.01); **C10N 2040/02** (2013.01); **C10N 2040/08** (2013.01); **C10N 2040/25** (2013.01); **C10N 2040/251** (2020.05); **C10N 2040/255** (2020.05); **C10N 2040/26** (2013.01); **C10N 2040/28** (2013.01); **C10N 2040/30** (2013.01); **C10N 2040/32** (2013.01); **C10N 2040/34** (2013.01); **C10N 2040/36** (2013.01); **C10N 2040/38** (2020.05); **C10N 2040/40** (2020.05); **C10N 2040/42** (2020.05); **C10N 2040/44** (2020.05); **C10N 2040/50** (2020.05)

Cited by  
US6071863A; CN114657007A; EP1582578A3; CN114621806A; US7067049B1; WO2019041008A1; WO9718280A1

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

DOCDB simple family (publication)  
**EP 0558835 A1 19930908**; **EP 0558835 B1 20010509**; DE 69231820 D1 20010613; DE 69231820 T2 20010823; ES 2158843 T3 20010916

DOCDB simple family (application)  
**EP 92300777 A 19920130**; DE 69231820 T 19920130; ES 92300777 T 19920130