

Title (en)
Aqueous emulsion copolymerisates, especially dilutable in water and oil, for modifying the flow properties and pour point reduction of petroleum and petroleum fractions, and their use.

Title (de)
Neue wässrige Emulsionscopolymerisate, insbesondere in Wasser- und Öl-verdünnbarer Form zur Verbesserung der Flieseigenschaften und Stockpunktserniedrigung von Erdölen und Erdölfraktionen sowie ihre Verwendung.

Title (fr)
Copolymères préparés en émulsion aqueuse, en particulier sous forme diluable par l'eau et l'huile, pour modifier la fluidité et l'abaissement du point d'écoulement d'huiles minérales et de leurs fractions, et leur utilisation.

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EP 0359061 B1 19931118 (DE)

Application
EP 89116168 A 19890901

Priority
DE 3830913 A 19880910

Abstract (en)
[origin: EP0359061A1] Aqueous emulsion copolymerizates of (meth)acrylates of long-chain alcohols in closed aqueous phase contain the following monomer components as disperse-phase copolymerizates with long storage life: at least 50 wt.%, preferably at least 60 wt.%, or (meth)acrylates of C16-30 alcohols; 0 to 25 wt.%, preferably 5 to 10 wt.%, of (meth)acrylates of alcohols with not more than 8 carbon atoms; and 0.5 to 40 wt.%, preferably approximately 1 to 25 wt.%, of olefinically unsaturated mono- and/or dicarboxylic acids or their anhydrides with a total of up to 10 carbon atoms. Also described is the use of these aqueous emulsion copolymerizates to reduce the pour point or flow point of hydrocarbon mixtures, in particular crude oil or crude oil fractions, in which the above-mentioned copolymerizates can be incorporated into hydrocarbon mixtures of the above-mentioned type in the form of a highly-concentrated but very mobile disperse phase of aqueous emulsion copolymerizates.

IPC 1-7
C10L 1/10; **C08F 220/12**; **C08F 2/22**

IPC 8 full level
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CPC (source: EP US)
C10L 1/106 (2013.01 - EP US); **C10L 1/1963** (2013.01 - EP US); **C10L 1/1966** (2013.01 - EP US); **C10M 101/02** (2013.01 - EP US); **C10M 125/14** (2013.01 - EP US); **C10M 129/08** (2013.01 - EP US); **C10M 129/16** (2013.01 - EP US); **C10M 129/24** (2013.01 - EP US); **C10M 129/76** (2013.01 - EP US); **C10M 135/08** (2013.01 - EP US); **C10M 135/10** (2013.01 - EP US); **C10M 145/14** (2013.01 - EP US); **C10M 145/16** (2013.01 - EP US); **C10M 145/28** (2013.01 - EP US); **C10M 145/36** (2013.01 - EP US); **C10M 161/00** (2013.01 - EP US); **C10M 173/00** (2013.01 - EP US); **C10L 1/1208** (2013.01 - EP US); **C10L 1/1852** (2013.01 - EP US); **C10L 1/1857** (2013.01 - EP US); **C10L 1/191** (2013.01 - EP US); **C10L 1/1985** (2013.01 - EP US); **C10L 1/2431** (2013.01 - EP US); **C10L 1/2437** (2013.01 - EP US); **C10M 2201/02** (2013.01 - EP US); **C10M 2203/10** (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2203/102** (2013.01 - EP US); **C10M 2203/1025** (2013.01 - EP US); **C10M 2203/104** (2013.01 - EP US); **C10M 2203/1045** (2013.01 - EP US); **C10M 2203/106** (2013.01 - EP US); **C10M 2203/1065** (2013.01 - EP US); **C10M 2203/108** (2013.01 - EP US); **C10M 2203/1085** (2013.01 - EP US); **C10M 2207/022** (2013.01 - EP US); **C10M 2207/023** (2013.01 - EP US); **C10M 2207/04** (2013.01 - EP US); **C10M 2207/046** (2013.01 - EP US); **C10M 2207/08** (2013.01 - EP US); **C10M 2207/287** (2013.01 - EP US); **C10M 2207/288** (2013.01 - EP US); **C10M 2207/289** (2013.01 - EP US); **C10M 2209/084** (2013.01 - EP US); **C10M 2209/086** (2013.01 - EP US); **C10M 2209/104** (2013.01 - EP US); **C10M 2209/108** (2013.01 - EP US); **C10M 2219/04** (2013.01 - EP US); **C10M 2219/042** (2013.01 - EP US); **C10M 2219/044** (2013.01 - EP US); **C10N 2050/01** (2020.05 - EP US)

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DE102006061103B4; GB2336368A; GB2336368B; EP0673990A1; US5585337A; WO2018177619A1; WO9833846A1; WO2019048663A1; WO2019057396A1; US10851323B2; WO2008083724A1; US6342553B1; US8293690B2; US8598101B2; EP3412691A1; WO2018224599A1; WO2020088858A1; US11618845B2

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