

Title (en)

Composition of water-soluble metal working fluid using distillation residue generated in production of biodiesel

Title (de)

Wasserlösliche Metallbearbeitungsflüssigkeit basierend auf einem Destillationsrückstand der Biodieselproduktion

Title (fr)

Lubrifiant soluble dans l'eau pour le travail des métaux à base d'un résidu de la distillation de la production de biodiesel

Publication

EP 1944353 A1 20080716 (EN)

Application

EP 07118301 A 20071011

Priority

KR 20070003692 A 20070112

Abstract (en)

A composition of a water-soluble metalworking fluid used in metal machining is provided. The water-soluble metalworking fluid is formed by adding 5 to 70wt% additives to 5 to 95wt% distillation residues that is generated in production of biodiesel and used as lubricating base oil, and 0 to 70wt% ion exchange water.

IPC 8 full level

C10M 173/00 (2006.01); **C10M 109/00** (2006.01); **C10M 169/04** (2006.01); **C10M 177/00** (2006.01); **C10N 40/20** (2006.01)

CPC (source: EP KR US)

C10M 101/04 (2013.01 - KR); **C10M 109/00** (2013.01 - EP US); **C10M 127/00** (2013.01 - KR); **C10M 169/04** (2013.01 - KR); **C10M 173/00** (2013.01 - EP US); **C10M 177/00** (2013.01 - EP US); **C10M 2207/125** (2013.01 - EP US); **C10M 2207/281** (2013.01 - EP US); **C10M 2207/2815** (2013.01 - EP US); **C10M 2207/40** (2013.01 - EP US); **C10M 2209/104** (2013.01 - EP US); **C10M 2215/042** (2013.01 - EP US); **C10M 2215/223** (2013.01 - EP US); **C10M 2229/02** (2013.01 - EP US); **C10N 2020/081** (2020.05 - EP US); **C10N 2030/12** (2013.01 - EP US); **C10N 2030/64** (2020.05 - EP US); **C10N 2040/20** (2013.01 - EP US); **C10N 2050/01** (2020.05 - EP US); **C10N 2070/00** (2013.01 - EP US)

Citation (search report)

- [A] CH 654020 A5 19860131 - SP K BYURO ANALIT PRIBOROSTR
- [A] GB 1093959 A 19671206 - HENRY W PEABODY IND LTD
- [A] EP 0255605 A2 19880210 - HENKEL KGAA [DE]
- [A] US 6051538 A 20000418 - MAJERCZAK VICTORIA ANN [US]
- [A] WO 03080771 A2 20031002 - UNITED SOY BEAN BOARD [US], et al
- [A] AU 626014 B2 19920723 - PALM OIL RESEARCH AND DEV BOAR

Cited by

EP2290010A1; EP2788461A4; WO2010118891A1

Designated contracting state (EPC)

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