

Title (en)

HIGH OLEIC ACID ELECTRICAL INSULATION FLUIDS AND METHOD OF MAKING THE SAME

Title (de)

ELEKTROISOLIERFLÜSSIGKEITEN MIT EINEM HOHEN GEHALT AN ÖLSÄURE SOWIE VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)

FLUIDES ISOLANTS RICHES EN ACIDE OLEIQUE ET PROCEDE DE FABRICATION ASSOCIE

Publication

EP 0912981 B1 20031126 (EN)

Application

EP 97932163 A 19970611

Priority

- US 9710045 W 19970611
- US 66572196 A 19960618

Abstract (en)

[origin: WO9749100A1] High oleic acid triglyceride compositions that comprise fatty acid components of at least 75 % oleic acid, less than 10 % diunsaturated fatty acid component; less than 3 % triunsaturated fatty acid component; and less than 8 % saturated fatty acid component; and having the properties of a dielectric strength of at least 35 KV/100 mil gap, a dissipation factor of less than 0.05 % at 25 DEG C, acidity of less than 0.03 mg KOH/g, electrical conductivity of less than 1 pS/m at 25 DEG C, a flash point of at least 250 DEG C and a pour point of at least -15 DEG C are disclosed. An electrical insulation fluid comprising the triglyceride composition is disclosed. Electrical apparatuses comprising the electrical insulation fluid and the use of electrical insulation fluid to provide insulation in electrical apparatuses are disclosed. A process for preparing the high oleic acid triglyceride composition is disclosed.

IPC 1-7

H01B 3/20

IPC 8 full level

C11C 3/00 (2006.01); **H01B 3/20** (2006.01)

CPC (source: EP)

H01B 3/20 (2013.01)

Citation (examination)

- US 323753 A 18850804
- EP 0714974 A1 19960605 - LUBRIZOL CORP [US]
- US 4536331 A 19850820 - SHEDIGIAN VANDOS [US]
- WO 9102784 A1 19910307 - HENKEL KGAA [DE]
- EP 0083736 A1 19830720 - SIEMENS AG [DE]

Cited by

EP1072780A2

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9749100 A1 19971224; AT E255269 T1 20031215; AU 3569297 A 19980107; AU 721761 B2 20000713; CA 2258248 A1 19971224; CA 2258248 C 20040406; DE 69726427 D1 20040108; DE 69726427 T2 20040909; EP 0912981 A1 19990506; EP 0912981 A4 19990526; EP 0912981 B1 20031126; ES 2212117 T3 20040716; JP 2000513038 A 20001003; PT 912981 E 20040430

DOCDB simple family (application)

US 9710045 W 19970611; AT 97932163 T 19970611; AU 3569297 A 19970611; CA 2258248 A 19970611; DE 69726427 T 19970611; EP 97932163 A 19970611; ES 97932163 T 19970611; JP 50310498 A 19970611; PT 97932163 T 19970611