

Title (en)  
Vegetable oil dielectric fluid composition

Title (de)  
Dielektrische Flüssigkeitszusammensetzung mit Pflanzenöl

Title (fr)  
Composition de liquide diélectrique d'huile végétale

Publication  
**EP 1995301 A1 20081126 (EN)**

Application  
**EP 07108428 A 20070517**

Priority  
EP 07108428 A 20070517

Abstract (en)  
A composition consisting of at least one vegetable oil and at least one antioxidant, wherein the composition has a pour point of less than about -20 °C, and wherein the pour point is measured according to either ASTM D97 or ASTM D5950.

IPC 8 full level  
**C11B 5/00** (2006.01); **C10M 169/04** (2006.01); **C11B 3/00** (2006.01); **H01B 3/30** (2006.01)

CPC (source: EP)  
**C10M 169/04** (2013.01); **H01B 3/20** (2013.01); **H01B 3/22** (2013.01); **C10M 2207/026** (2013.01); **C10M 2207/283** (2013.01);  
**C10M 2207/2835** (2013.01); **C10M 2207/40** (2013.01); **C10M 2207/401** (2013.01); **C10M 2207/404** (2013.01); **C10M 2207/4045** (2013.01);  
**C10M 2209/084** (2013.01); **C10M 2215/064** (2013.01); **C10M 2217/026** (2013.01); **C10N 2030/02** (2013.01); **C10N 2030/08** (2013.01);  
**C10N 2030/60** (2020.05); **C10N 2030/64** (2020.05); **C10N 2040/16** (2013.01)

Citation (search report)  
• [XY] US 2006030499 A1 20060209 - OOMMEN THOTTATHIL V [US], et al  
• [XY] US 5169669 A 19921208 - HAYNES LOUIS V [US], et al  
• [X] US 6169190 B1 20010102 - LANUZA JUAN ENRIQUE ROMERO [US], et al  
• [X] US 2002049145 A1 20020425 - CANNON GLENN S [US], et al  
• [A] US 5451334 A 19950919 - BONGARDT FRANK [DE], et al  
• [A] GB 2134923 A 19840822 - KASVIOLJY VAXTOLJE AB OY  
• [X] WO 03093403 A1 20031113 - RENEWABLE LUBRICANTS INC [US], et al  
• [XY] KRAMER J K G ET AL: "brassica campestris var. span: i. fractionation of rapeseed oil by moleculardestillation and adsorption chromatography", LIPIDS, CHAMPAIGN, IL, US, vol. 10, September 1975 (1975-09-01), pages 505 - 510, XP009094136, ISSN: 0024-4201

Citation (third parties)  
Third party :  
• "Standard Test Method for Pour Point of Petroleum Products", ASTM D97-12, pages 1 - 5, XP003033254  
• "Standard Test Method for Pour Point of Petroleum Products (Automatic Tilt Method)", ASTM D5950-12A, pages 1 - 5, XP003033257

Cited by  
CN102483985A; CN110819428A; WO2013101414A1; WO2011119747A1; US9490047B2; TWI549141B

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
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