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(21) International Application Number: PCT/US98/00242 (22) International Filing Date: 5 January 1998 (05.01.98) (30) Priority Data: 08/778,608 6 January 1997 (06.01.97) US (71) Applicant: ABB POWER T & D COMPANY INC. [US/US]; 1021 Main Campus Drive, Raleigh, NC 27606 (US). (72) Inventors: OOMMEN, Thottathil, V.; 4808 Kaplaan, Raleigh, NC 27606 (US). CLAIBORNE, C., Clair; 925 Hall Avenue, Sharon, PA 16146 (US). (74) Agents: NORRIS, Norman, L. et al.; Woodcock Washburn Kurtz Mackiewicz & Norris, 46th floor, One Liberty Place, Philadelphia, PA 19103 (US).		(81) Designated States: AU, CA, JP, MX, SG, VN, European patent (DE, ES, FI, FR, GB, IT). Published <i>With international search report.</i>
(54) Title: HIGH OLEIC ACID ELECTRICAL INSULATION FLUIDS AND DEVICES CONTAINING THE FLUIDS (57) Abstract 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 °C, acidity of less than 0.03 mg KOH/g, electrical conductivity of less than 1 pS/m at 25 °C, a flash point of at least 250 °C and a pour point of at least -15 °C are disclosed. Electrical insulation fluids comprising the triglyceride composition are disclosed. Electrical insulation fluids that comprise the triglyceride composition and a combination of additives are disclosed. Electrical apparatuses comprising the electrical insulation fluids and the use of electrical insulation fluids to provide insulation in electrical apparatuses are disclosed. A process for preparing the high oleic acid triglyceride composition is disclosed.		