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(54) Title: NEW METHODS FOR THE PREPARATION OF PROPYLENE GLYCOL FATTY ACID ESTERS

(57) Abstract: A process of producing a light-colored, high-monoester mixture from a polyol and an oil is provided wherein the process eliminates the use of organic solvents, multiple water washings and/or molecular distillation. The reactants, a polyol and an oil, described herein, condense in the presence of a catalyst, described herein, at a temperature range from about 180°C to about 280°C under an inert atmosphere or the vapor pressure of the polyol with a pressure of about 0 to about 500 psig to yield a monoester mixture possessing a desirable monoester composition and color. The present process yields a final product similar to that of processes which require the use of solvents, multiple water washings and/or molecular distillation.



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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

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US CL : 554/163, 168, 169

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 554/163, 168, 169

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
CAS ONLINE, EAST, WEST**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,648,483 A (GRANBERG et al.) 15 July 1997 (15.07.1997), entire document.	1-51
X	US 5,986,117 A (COOPER) 16 November 1999 (16.11.1999), entire document.	1-51
A	US 5,491,226 A (KENNEALLY) 13 February 1996 (13.02.1996), entire document.	1-51



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