

Title (en)

A LUBRICATING COMPOSITION IN THE FORM OF A GEL CONSISTING OF AN OIL AND POLYMETHYLPENTENE

Publication

EP 0000697 B1 19841114 (EN)

Application

EP 78100269 A 19780629

Priority

US 81714777 A 19770720

Abstract (en)

[origin: US4146487A] {PG,1 Lubricating compositions and shaped articles composed thereof for use in bearings and the like are described which consist essentially of about 50 to about 90% by weight of an oil of lubricating viscosity and about 50 to about 10% by weight of polymethylpentene having an average molecular weight in the range from about 3 to about 5 million; the oil being a mineral oil, a diester oil or preferably a synthetic hydrocarbon oil, and having a viscosity in the range from about 15 to about 300 millimeters²/second (mm²/s) at 38{20 {0 C. (100{20 {0 F.); the shaped articles can be formed in situ in an article such as a bearing or a mold by heat curing a physical mixture of the oil and polymethylpentene at a temperature somewhat above the initial softening point of the latter for about 45 to 75 minutes and allowing the mixture to cool to form a firm, tough, solid gel having an oily surface provided by oil exuding from the gel to thus produce a lubricating mass operable for extended periods of time at temperature up to about 160{20 {0 C. (320{20 {0 F.). These shaped lubricating masses may be used as formed or may be shaped further by conventional physical means.

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IPC 8 full level

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