

Title (en)
GREASES

Title (de)
SCHMIERFETTER

Title (fr)
GRAISSES

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Application
EP 93924736 A 19931110

Priority
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Abstract (en)
[origin: WO9411470A1] A grease primarily for use with constant velocity joints comprises a base oil, which may be a mineral oil, or synthetic oil, or a mixture of such oils, and a lithium-based soap thickener, which may be a simple lithium soap or a complex lithium soap, in combination with: (1) an organo-molybdenum complex capable of functioning as a friction reducing additive; (2) an anti-wear/anti-oxidant compound; (3) an organo-sulphur compound extreme pressure additive; and (4) an organo-phosphorus compound extreme pressure additive. A grease in accordance with this formulation has been found to exhibit an unexpected combination of low friction and low wear characteristics when used in constant velocity joints.

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IPC 8 full level
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CPC (source: EP US)
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Citation (examination)
• "Manufacturing Polyurea Greases in the Stratco Contactor", "Ken Kranz and W.P.Scot Annual Meeting of the National Lubricating Grease Institute in South Carolina (October 1992)
• Toshiaki Endo: "Recent Technical Trend in the Stratco Contactor" Annual Meeting of the National Lubricating Grease Institute in South Carolina (October 1992)
• Root J.C. and Scruton P.J.: "Second Generation Multi-Purpose Polyureas and Marketing 101", Annual Meeting of the National Lubricating Grease Institute in South Carolina (October 1992)
• MITCHELL P.C.H.: "OIL-SOLUBLE MO-S COMPOUNDS AS LUBRICANT ADDITIVES", WEAR, vol. 100, 1984, pages 218 - 283
• Vanderbilt Lubricant Additives, Datasheet from 1990 concerning Molyvan L and Molyvan A

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