

Title (en)
INVERSE MICELLAR COMPOSITIONS CONTAINING LUBRICANT ADDITIVES

Title (de)
SCHMIERMITTELADDITIVE MIT INVERSEN MIZELLAREN ZUSAMMENSETZUNGEN

Title (fr)
COMPOSITIONS DE MICELLES INVERSES CONTENANT DES ADDITIFS LUBRIFIANTS

Publication
EP 3307859 A1 20180418 (EN)

Application
EP 16727911 A 20160525

Priority
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Abstract (en)
[origin: WO2016200606A1] This disclosure relates to lubricating engines using formulated lubricating oils to reduce wear and improve engine fuel efficiency. The formulated lubricating oils contain a major amount of a nonpolar lubricating oil base stock and a minor amount of one or more polar lubricating oil additives. The one or more polar lubricating oil additives include swollen inverse micelles dispersed in the nonpolar lubricating oil base stock. The swollen inverse micelles include (i) a liquid polar core containing a polar solvent and one or more polar lubricating oil additives having solubility in the polar solvent, and (ii) a layer of liquid surfactant molecules enclosing the liquid polar core in which polar heads of the liquid surfactant molecules are oriented towards the liquid polar core. A method of improving solubility of polar lubricating oil additives in a nonpolar lubricating oil base stock is also provided.

IPC 8 full level
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Citation (search report)
See references of WO 2016200606A1

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