

Title (en)  
LUBRICATING OIL COMPOSITION

Title (de)  
SCHMIERÖLZUSAMMENSETZUNG

Title (fr)  
COMPOSITION D'HUILE LUBRIFIANTE

Publication  
**EP 3371289 A1 20180912 (EN)**

Application  
**EP 16790387 A 20161103**

Priority  
• JP 2015216297 A 20151104  
• EP 2016076604 W 20161103

Abstract (en)  
[origin: WO2017076999A1] An object of the present invention is to obtain a lubricating oil for machine tools, which has good lubricating properties and abrasion resistance and also exhibits a high flash point and a low pour point. A lubricating oil composition comprises, as a base oil, a base oil which includes an oil containing 20 mass% to 49 mass% of n-paraffin components and 51 mass% to 80 mass% of i-paraffin components at a quantity of 90 mass% or more of the total quantity of the base oil and which has a kinematic viscosity at 40°C of 1 to 5 mm<sup>2</sup>/s. By blending a small quantity of β-dithiophosphorylated propionic acid and/or an acidic phosphoric acid ester in this base oil, a lubricating oil composition suitable for use for a main shaft of a machine tool is obtained. The lubricating oil composition for a main shaft of a machine tool has a flash point of 100°C or more, a pour point of -10°C or less, and a Shell four-ball wear mark diameter of 0.7 mm or less.

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