

Title (en)

LUBRICANT WITH SPHERICAL COPPER AND BISMUTH POWDERS

Title (de)

SCHMIERMITTEL MIT SPHÄRISCHEM KUPFER- UND WISMUTPULVER

Title (fr)

LUBRIFIANT CONTENANT DES POUDRES DE CUIVRE ET DE BISMUTH SPHÉRIQUES

Publication

**EP 3030638 A4 20170503 (EN)**

Application

**EP 14834799 A 20140805**

Priority

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- US 2014049799 W 20140805

Abstract (en)

[origin: WO2015021052A1] Compositions for lubricants and methods for producing the same using spherical bismuth powder and spherical copper powder particles are disclosed. In at least one embodiment, the lubricant includes a base oil, a grease, a copper powder, comprising at least one spherical particle, and a bismuth powder, comprising at least one spherical particle. The lubricant can be used as an engine oil, a gear oil, a grease lubricant, or a spray lubricant. When applying the lubricant to an internal combustible engine, the heat and pressure within the engine compresses the lubricant to infuse the copper and bismuth powder particles to the internal surface of the engine. When used in internal combustible engines, the disclosed lubricants deliver outstanding wear resistance, improve gas mileage, extend interval times needed for oil changes, and also reduce engine exhaust emission.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [I] US 4204968 A 19800527 - MACK JACK E [US], et al
- See references of WO 2015021052A1

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