

Title (en)
ANTIFRICTION, ANTIWEAR COMPOUND

Title (de)
REIBUNGSVERHINDERNDE UND VERSCHLEISSFESTE VERBINDUNG

Title (fr)
COMPOSÉ ANTIFRICTION, ANTI-USURE

Publication
EP 2250243 A1 20101117 (EN)

Application
EP 09718496 A 20090306

Priority
• IB 2009000447 W 20090306
• IT TO20080172 A 20080306

Abstract (en)
[origin: WO2009109849A1] An antifriction and wear-resistant compound for mechanical groups, such as speed gears, differential groups and the like, comprising a solid phase and a liquid phase wherein said solid phase is in suspension and is characterised in that it comprises at least one from among the following elements: silicon, silica, silicon nitride, graphite, diamond, copper, nickel, zinc, aluminium and alumina, all present in nanopowder form.

IPC 8 full level
C10M 169/04 (2006.01); **C10M 171/06** (2006.01); **C10N 10/02** (2006.01); **C10N 10/04** (2006.01); **C10N 10/06** (2006.01); **C10N 10/08** (2006.01); **C10N 10/16** (2006.01); **C10N 20/06** (2006.01); **C10N 30/06** (2006.01); **C10N 40/02** (2006.01); **C10N 40/04** (2006.01)

CPC (source: EP US)
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Citation (search report)
See references of WO 2009109849A1

Citation (examination)
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• US 2007254817 A1 20071101 - GRIFFO ANTHONY [US], et al
• JINGFANG ZHOU ET AL: "Tribological behaviour and lubricating mechanism of Cu nanoparticles in oil", TRIBOLOGY LETTERS, vol. 8, no. 4, 1 January 2000 (2000-01-01), pages 213 - 218, XP055022757, ISSN: 1023-8883, DOI: 10.1023/A:1019151721801
• SUNQING QIU, ZHONGRONG ZHOU, JUNXIU DONG, GUOXU CHEN: "Preparation of Ni nanoparticles and Evaluation of Their Tribological performance as Potential Additives in Oils", JOURNAL OF TRIBOLOGY, vol. 123, no. 3, July 2001 (2001-07-01), pages 441 - 443, XP009157842, DOI: 10.1115/1.1286152

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Designated extension state (EPC)
AL BA RS

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