

Title (en)

COMPOSITION AND PROCESS FOR LUBRICATED PLASTIC WORKING OF METALS

Title (de)

ZUSAMMENSETZUNG UND VERFAHREN ZUR BESCHICHTUNG VON METALLEN MIT SCHMIERKUNSTSTOFFEN

Title (fr)

COMPOSITION ET PROCEDE POUR L'ENROBAGE DE METAUX AVEC UN PLASTIQUE LUBRIFIE

Publication

EP 1093510 B1 20060329 (EN)

Application

EP 99927194 A 19990609

Priority

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- US 9912364 W 19990609

Abstract (en)

[origin: WO9964544A1] A lubricant composition for the plastic working of metals that does not require a phosphate undercoating, is waterborne, requires only a simple application process of immersion or spraying followed by drying, and provides an excellent lubricating performance comprises synthetic resin, water-soluble inorganic salt, and water. The weight ratio of the content of salt to that of synthetic resin is from 0.25:1 to 9:1. This composition can also contain liquid and/or solid lubricating agent(s) and extreme pressure additive.

IPC 8 full level

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CPC (source: EP KR)

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WO 9964544 A1 19991216; AT E321831 T1 20060415; AU 4416299 A 19991230; AU 763155 B2 20030717; CA 2334716 A1 19991216; CA 2334716 C 20090818; CN 1148437 C 20040505; CN 1243150 A 20000202; DE 69930628 D1 20060518; DE 69930628 T2 20070201; EP 1093510 A1 20010425; EP 1093510 A4 20020605; EP 1093510 B1 20060329; ES 2257053 T3 20060716; IN 192718 B 20040515; KR 20000006017 A 20000125; TW 444056 B 20010701

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