

Title (en)

Multi layer sliding part and a method for its manufacture

Title (de)

Mehrschichtige Gleitlagerbeschichtung und Herstellungsverfahren

Title (fr)

Revêtement de palier multicouches et sa méthode de fabrication

Publication

**EP 1508693 B1 20150812 (EN)**

Application

**EP 04292060 A 20040818**

Priority

JP 2003294031 A 20030818

Abstract (en)

[origin: EP1508693A2] A multi-layer sliding part has a Cu-plated solid lubricant uniformly dispersed in the matrix of a sintered bronze powder. The sintered alloy layer is densified by pressing, and the surface of the bearing alloy layer is coated with a resin having sliding properties. In a method of manufacturing a multi-layer sliding part, a mixture of a bronze powder and a Cu-plated solid lubricant are initially sintered, and the initially sintered mass is pulverized. The pulverized powder is sintered on both sides of a backing plate. After sintering of the pulverized powder on both sides of the backing plate to form bearing alloy layers, the bearing alloy layers are pressed and densified. After densification, the bearing alloy layers are annealed, again pressed, and then coated with a resin having sliding properties.

IPC 8 full level

**F04B 1/12** (2006.01); **F04B 27/10** (2006.01)

CPC (source: EP)

**F04B 1/122** (2013.01); **F04B 27/1054** (2013.01); **F05C 2201/0475** (2013.01); **F05C 2201/0493** (2013.01); **F05C 2203/086** (2013.01); **F05C 2253/12** (2013.01)

Cited by

US7732058B2; CN110774686A; EP2682217A4; WO2013156428A1

Designated contracting state (EPC)

CZ DE FR IT

DOCDB simple family (publication)

**EP 1508693 A2 20050223; EP 1508693 A3 20110622; EP 1508693 B1 20150812**

DOCDB simple family (application)

**EP 04292060 A 20040818**