

Title (en)
COMPOSITE MATERIAL CONSISTING OF A METAL MATRIX AND TALC

Title (de)
VERBUNDWERKSTOFF AUS EINER METALLMATRIX UND TALK

Title (fr)
MATERIAU COMPOSITE CONSTITUE PAR UNE MATRICE METALLIQUE ET DU TALC.

Publication
EP 1570116 B1 20080430 (FR)

Application
EP 03815090 A 20031208

Priority
• FR 0303625 W 20031208
• FR 0215507 A 20021209

Abstract (en)
[origin: US2006162655A1] The invention relates to a lubricating metal coating and to a process for its preparation. The material constituting the coating in a composite material comprising a metal matrix within which talc particles are distributed as lamellae, the metal matrix being composed of a metal chosen from Fe, Co, Ni, Mn, Cr, Cu, W, Mo, Zn, Au, Ag, Pb or Sn or of an alloy of these metals or of a metal/semimetal alloy. The coating is obtained by a process consisting in carrying out an electrolytic deposition using a solution of precursors of the metal matrix of the coating which additionally comprises talc particles in suspension, which particles are modified at the surface by irreversible adsorption of a cellulose-derived compound by replacement of all or part of the hydroxyl groups.

IPC 8 full level
C25D 15/02 (2006.01)

CPC (source: EP US)
C25D 15/02 (2013.01 - EP US); **Y10T 428/12486** (2015.01 - EP US); **Y10T 428/12493** (2015.01 - EP US); **Y10T 428/12944** (2015.01 - EP US); **Y10T 428/31703** (2015.04 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2006162655 A1 20060727; US 7659008 B2 20100209; AT E393844 T1 20080515; AU 2003296779 A1 20040810; BR 0316854 A 20051018; CA 2507456 A1 20040729; CA 2507456 C 20111122; DE 60320673 D1 20080612; EP 1570116 A2 20050907; EP 1570116 B1 20080430; FR 2848219 A1 20040611; FR 2848219 B1 20061201; WO 2004063428 A2 20040729; WO 2004063428 A3 20041014

DOCDB simple family (application)
US 53782703 A 20031208; AT 03815090 T 20031208; AU 2003296779 A 20031208; BR 0316854 A 20031208; CA 2507456 A 20031208; DE 60320673 T 20031208; EP 03815090 A 20031208; FR 0215507 A 20021209; FR 0303625 W 20031208