

Title (en)
MATERIAL ON AN ALUMINIUM BASIS FOR ANTI-FRICTION BEARINGS

Title (de)
GLEITLAGERWERKSTOFF AUF ALUMINIUMBASIS

Title (fr)
MATERIAU A BASE D'ALUMINIUM POUR PALIER LISSE

Publication
EP 1099000 B1 20021204 (DE)

Application
EP 99936571 A 19990720

Priority
• DE 19833200 A 19980723
• EP 9905152 W 19990720

Abstract (en)
[origin: US6673168B1] An aluminum-based material for anti-friction bearings composed of an aluminum alloy with 10-25 wt % tin or 5-25 wt % lead, impurity-caused components characterized by 0.75-2.5 wt % iron and an alloy additive capable of forming an intermetallic compound having a spherical phase homogeneously distributed in the aluminum alloy. The alloy additive is one of: a) manganese and silicon, in which the weight percentage fractions of manganese and silicon are at least half the weight percentage fraction of the iron and for manganese, at most 3 wt %, and for silicon, at most 2 wt %; b) 0.1-0.5 wt % cobalt; and c) 0.1-0.5 wt % molybdenum.

IPC 1-7
C22C 21/00

IPC 8 full level
F16C 33/12 (2006.01); **C22C 21/00** (2006.01)

CPC (source: EP US)
C22C 21/003 (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 6673168 B1 20040106; AT E229089 T1 20021215; BR 9909145 A 20001205; DE 19833200 A1 20000127; DE 59903668 D1 20030116; EP 1099000 A1 20010516; EP 1099000 B1 20021204; ES 2186388 T3 20030501; JP 2002521565 A 20020716; WO 0005427 A1 20000203

DOCDB simple family (application)
US 70088700 A 20001120; AT 99936571 T 19990720; BR 9909145 A 19990720; DE 19833200 A 19980723; DE 59903668 T 19990720; EP 9905152 W 19990720; EP 99936571 A 19990720; ES 99936571 T 19990720; JP 2000561373 A 19990720