

Title (en)

Bulk compound for protection against hardening for the selective carburizing of metallic workpieces

Title (de)

Härteschutzmassen für das selektive Aufkohlen von metallischen Bauteilen

Title (fr)

Composé en vrac protégeant du durcissement pour la carburation sélective de pièces métalliques

Publication

EP 1180551 A3 20060503 (DE)

Application

EP 01117998 A 20010725

Priority

DE 10038447 A 20000807

Abstract (en)

[origin: EP1180551A2] Hardening protective mass based on materials forming boron glass contains magnesium-silicon compounds as additive. Preferred Features: The materials forming boron glass and the magnesium-silicon compounds are present in the ratio of 2-100: 1, preferably 10: 1. The magnesium-silicon compounds are magnesium silicates such as magnesium orthosilicate, magnesium metasilicate, magnesium trisilicate or talc. The materials forming boron glass are selected from boric acid, boron oxide, alkali borate and alkaline earth borate.

IPC 8 full level

C09D 7/12 (2006.01); **C23C 8/04** (2006.01); **C09D 201/00** (2006.01)

CPC (source: EP US)

C23C 8/04 (2013.01 - EP US)

Citation (search report)

- [X] EP 0867524 A1 19980930 - NARD INSTITUTE LTD [JP], et al
- [A] US 1366305 A 19210118 - SAMUEL WHYTE

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1180551 A2 20020220; EP 1180551 A3 20060503; EP 1180551 B1 20100106; AT E454482 T1 20100115; BR 0103204 A 20020326; BR 0103204 B1 20110906; CA 2354675 A1 20020207; CA 2354675 C 20090623; DE 10038447 C1 20020711; DE 50115294 D1 20100225; ES 2338094 T3 20100504; JP 2002115041 A 20020419; JP 4938186 B2 20120523; PL 198128 B1 20080530; PL 349061 A1 20020211; US 2002020471 A1 20020221; US 6964712 B2 20051115

DOCDB simple family (application)

EP 01117998 A 20010725; AT 01117998 T 20010725; BR 0103204 A 20010803; CA 2354675 A 20010803; DE 10038447 A 20000807; DE 50115294 T 20010725; ES 01117998 T 20010725; JP 2001237601 A 20010806; PL 34906101 A 20010806; US 92294801 A 20010807