

Title (en)

Process for increasing the corrosion resistance of a metallic workpiece and workpiece

Title (de)

Verfahren zum Erhöhen der Korrosionsbeständigkeit eines metallischen Werkstücks sowie Werkstück

Title (fr)

Procédé pour l'amélioration de la résistance à la corrosion d'une pièce métallique et pièce

Publication

EP 0947605 B1 20020821 (DE)

Application

EP 99100999 A 19990121

Priority

DE 19814218 A 19980331

Abstract (en)

[origin: EP0947605A1] A metal workpiece (1) has increased corrosion resistance by blasting with grit which leaves grit debris as a corrosion resistant coating (2). The corrosion resistance of a metal workpiece (1) is increased by blasting with grit which causes deformation or structural modification of the workpiece surface and which produces corrosion resistant grit debris to form a corrosion resistant coating (2). An Independent claim is also included for a metal workpiece (1) having a deformed and compacted surface region (3) structurally bonded (preferably cold welded) to a coating layer (2). Preferred Features: The workpiece consists of an AlMgSi or AlMgSiCu alloy and the grit consists of aluminum or an AlMg alloy.

IPC 1-7

C23C 24/04

IPC 8 full level

C23C 24/04 (2006.01)

CPC (source: EP)

C23C 24/04 (2013.01)

Cited by

US6911249B2; US11370025B2; US11510786B2; US10821000B2; US11690723B2; US11712339B2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI NL PT SE

DOCDB simple family (publication)

EP 0947605 A1 19991006; EP 0947605 B1 20020821; AT E222612 T1 20020915; DE 19814218 A1 19991014; DE 59902392 D1 20020926; ES 2182406 T3 20030301

DOCDB simple family (application)

EP 99100999 A 19990121; AT 99100999 T 19990121; DE 19814218 A 19980331; DE 59902392 T 19990121; ES 99100999 T 19990121