

Title (en)

COMPOSITION AND PROCESS FOR TREATING SURFACES OF LIGHT METALS AND THEIR ALLOYS

Title (de)

ZUSAMMENSETZUNG UND VERFAHREN ZUR BEHANDLUNG VON OBERFLÄCHEN VON LEICHTMETALLEN UND IHREN LEGIERUNGEN

Title (fr)

COMPOSITION ET PROCEDE PERMETTANT DE TRAITER LES SURFACES DES METAUX LEGERES ET DE LEURS ALLIAGES

Publication

EP 1177329 A4 20020612 (EN)

Application

EP 99952062 A 19990520

Priority

- JP 13788698 A 19980520
- US 9910450 W 19990520

Abstract (en)

[origin: WO9960186A1] An aqueous bath for treating the surfaces of light metals and light metal alloys that does not contain hexavalent chromium or produce any other highly polluting effluent and that forms a highly corrosion-resistant and highly paint-adherent conversion coating has a pH from 1.0 to 7.0 and contains from 0.01 to 50 g/L of permanganic acid and/or salt(s) thereof and 0.01 to 20 g/L of at least one water soluble compound of titanium or zirconium.

IPC 1-7

C23C 22/48; **C23C 22/56**; **C23C 22/57**

IPC 8 full level

C23C 22/34 (2006.01); **C23C 22/56** (2006.01); **C23C 22/57** (2006.01)

CPC (source: EP)

C23C 22/34 (2013.01); **C23C 22/56** (2013.01); **C23C 22/57** (2013.01)

Citation (search report)

- [X] WO 9702369 A1 19970123 - HENKEL CORP [US], et al
- [XP] WO 9852699 A1 19981126 - HENKEL CORP [US], et al
- [E] WO 9937829 A1 19990729 - NATURAL COATING SYSTEMS LLC [US], et al
- [A] US 5112513 A 19920512 - BRESSEL BURKHARD [DE], et al
- See references of WO 9960186A1

Designated contracting state (EPC)

DE ES FR GB IT NL

DOCDB simple family (publication)

WO 9960186 A1 19991125; **WO 9960186 A8 20000727**; AU 4308099 A 19991206; CA 2332620 A1 19991125; EP 1177329 A1 20020206; EP 1177329 A4 20020612

DOCDB simple family (application)

US 9910450 W 19990520; AU 4308099 A 19990520; CA 2332620 A 19990520; EP 99952062 A 19990520