

Title (en)

ANTICORROSIVE AND FRICTION-REDUCING TREATMENT OF METALLIC SURFACES

Title (de)

KORROSIONSSCHUTZ UND REIBUNGSVERMINDERUNG VON METALLOBERFLÄCHEN

Title (fr)

TRAITEMENT ANTICORROSION ET REDUISANT LE FROTTEMENT POUR SURFACES METALLIQUES

Publication

EP 0793738 B1 19990414 (DE)

Application

EP 95940171 A 19951114

Priority

- DE 4441710 A 19941123
- EP 9504466 W 19951114

Abstract (en)

[origin: WO9616205A1] An aqueous acid solution is used for treating beverage cans, in particular made of aluminium, in order to create on the cans an anti-corrosive, friction-reducing coating that allows the cans to be more easily lacquered. The solution contains 0.14 to 2.25 mmol/l of an alkyl amine oxide or alkyl ammonium salt with an alkyl residue having 8 to 22 C atoms, 0.25 to 1.5 mmol/l hydroxycarboxylic acids with 4 to 7 C atoms, complex fluorides and mineral acids, and preferably tannin.

IPC 1-7

C23C 22/34; **C23C 22/36**; **C10M 173/02**

IPC 8 full level

C10M 173/02 (2006.01); **C23C 22/34** (2006.01); **C23C 22/36** (2006.01)

CPC (source: EP)

C23C 22/34 (2013.01)

Designated contracting state (EPC)

AT DE FR GB IT

DOCDB simple family (publication)

WO 9616205 A1 19960530; AR 000259 A1 19970618; AT E178951 T1 19990415; AU 4171996 A 19960617; AU 698370 B2 19981029; BR 9509759 A 19970916; CA 2205996 A1 19960530; DE 4441710 A1 19960530; DE 59505673 D1 19990520; EP 0793738 A1 19970910; EP 0793738 B1 19990414; JP H10509766 A 19980922; MX 9703762 A 19980731; TR 199501469 A2 19960721; TW 283740 B 19960821; ZA 959938 B 19960523

DOCDB simple family (application)

EP 9504466 W 19951114; AR 33433095 A 19951122; AT 95940171 T 19951114; AU 4171996 A 19951114; BR 9509759 A 19951114; CA 2205996 A 19951114; DE 4441710 A 19941123; DE 59505673 T 19951114; EP 95940171 A 19951114; JP 51652896 A 19951114; MX 9703762 A 19970522; TR 9501469 A 19951122; TW 84108884 A 19950825; ZA 959938 A 19951122