

Title (en)

SUBSTANTIALLY NICKEL-FREE PHOSPHATE CONVERSION COATING COMPOSITION AND PROCESS.

Title (de)

IM WESENTLICHEN NICKELFREIER PHOSPHATKONVERSIONSÜBERZUG-ZUSAMMENSETZUNG UND VERFAHREN.

Title (fr)

COMPOSITION ET PROCEDE DE REVETEMENT DE CONVERSION DE PHOSPHATE PRATIQUEMENT SANS NICKEL.

Publication

EP 0675972 A1 19951011 (EN)

Application

EP 94904428 A 19931215

Priority

- US 99546592 A 19921222
- US 9312044 W 19931215

Abstract (en)

[origin: WO9414999A1] The nickel in conventional low zinc and nickel containing phosphate conversion coating compositions can be replaced by substantially smaller concentrations of cupric ions without losing the benefits of quality that motivated the addition of nickel to low zinc phosphating compositions originally; in fact, better alkaline resistance and paint adhesion can be achieved, along with a substantial cost reduction.

IPC 1-7

C23C 22/12

IPC 8 full level

C23C 22/12 (2006.01); **C23C 22/13** (2006.01); **C23C 22/18** (2006.01); **C23C 22/36** (2006.01)

CPC (source: EP)

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US 9312044 W 19931215; AT 94904428 T 19931215; AU 5848194 A 19931215; BR 9307702 A 19931215; CA 2150545 A 19931215; CN 93119949 A 19931222; CZ 164995 A 19931215; DE 69326021 T 19931215; EP 94904428 A 19931215; ES 94904428 T 19931215; JP 51522794 A 19931215; PL 30940493 A 19931215; SG 1996005336 A 19931215; ZA 939636 A 19931222