

Title (en)

ALKALINE RESISTANT PHOSPHATE CONVERSION COATINGS AND METHOD OF MAKING.

Title (de)

ALKALIBESTÄNDIGE PHOSPHATUMWANDLUNGSSCHICHTEN UND DEREN HERSTELLUNGSVERFAHREN.

Title (fr)

REVETEMENTS DE CONVERSION DE PHOSPHATE DE RESISTANCE ALCALINE ET PROCEDE DE FABRICATION.

Publication

EP 0112826 A4 19841107 (EN)

Application

EP 82902566 A 19820712

Priority

US 8200949 W 19820712

Abstract (en)

[origin: WO8400386A1] A method for increasing the resistance to alkaline dissolution of a phosphate conversion coating on a corrodible metal substrate. The substrate is exposed to the phosphating solution by spraying or dipping to chemically effect a reaction with the substrate. The solution contains 84-94 molar percent of the total metal cations of a first layer-forming divalent metal cation, the metal cation having a hydroxide which has a lower solubility in an alkaline solution than iron or zinc hydroxide and is preferably selected from the group consisting of nickel, cobalt, magnesium and lanthanides, and a second layer-forming metal cation in the form of zinc present in an amount of .2-.6 g/l as a Zn^{+2} . The molar ratio range of the first and second metal cations is in the range of 5.2:1 to 16:1, and the first metal cation is present in the solution in an amount of at least 1.0 g/l. The deposited coating has a first divalent metal cation present in an amount of at least 15 mole percent of the total divalent cations, and a second divalent cation present in an amount of at least 25 % by weight of the coating; the coating preferably has a uniform weight of less than 1.3 g/m² (120 mg/ft²).

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C23F 7/08

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] FR 2065066 A5 19710723 - LUBRIZOL CORP
- [A] US 2790740 A 19570430 - AYRES ROBERT F, et al
- [A] FR 1451329 A 19660107 - PARKER STE CONTINENTALE
- [A] FR 1554024 A 19690117

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