

Title (en)

FINELY CRYSTALLINE AND/OR FAST PHOSPHATE CONVERSION COATING COMPOSITION AND PROCESS

Title (de)

ZUSAMMENSETZUNG UND VERFAHREN ZUR SCHNELLEN PHOSPHATUMWANDLUNGSBESCHICHTUNG UND/ODER MIT FEINEN KRISTALLEN

Title (fr)

COMPOSITION POUR REVETEMENT DE CONVERSION EN PHOSPHATE RAPIDE ET/OU A CRISTAUX FINS ET PROCEDE D'UTILISATION

Publication

EP 0866887 A4 20010411 (EN)

Application

EP 96936939 A 19961031

Priority

- US 9617086 W 19961031
- US 629495 P 19951107

Abstract (en)

[origin: WO9717480A1] A combination of difunctional organic acid, preferably a hydroxy acid such as citric acid, or salt thereof with acrylic acid/acrylate polymers in zinc phosphate conversion coating forming liquid compositions, preferably also containing hydroxylamine, results in crystal size refinement in the coating formed and/or faster formation of a sufficiently thick conversion coating to protect against subsequent rusting of a ferrous substrate.

IPC 1-7

C23C 22/17

IPC 8 full level

C23C 22/17 (2006.01); **C23C 22/36** (2006.01)

CPC (source: EP KR)

C23C 22/17 (2013.01 - EP KR); **C23C 22/184** (2013.01 - KR); **C23C 22/365** (2013.01 - EP)

Citation (search report)

- [A] US 3346426 A 19671010 - LOUIS SCHLOSSBERG
- [A] SUGAMA T ET AL: "ADVANCED POLY(ACRYLIC)ACID-MODIFIED ZINC PHOSPHATE CONVERSION COATINGS: USE OF COBALT AND NICKEL CATIONS", SURFACE AND COATINGS TECHNOLOGY, ELSEVIER, AMSTERDAM, NL, vol. 50, no. 2, 1992, pages 89 - 95, XP000944764, ISSN: 0257-8972
- See references of WO 9717480A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

US 9617086 W 19961031; AR P960105068 A 19961106; AU 7473196 A 19961031; BR 9611356 A 19961031; CN 96198123 A 19961031; EP 96936939 A 19961031; JP 51820397 A 19961031; KR 19980703399 A 19980507; ZA 969146 A 19961030