

Title (en)

MIXED PHOSPHATATION SOLUTION AND PROCESS

Publication

EP 0298827 B1 19930811 (FR)

Application

EP 88401614 A 19880624

Priority

FR 8708989 A 19870625

Abstract (en)

[origin: EP0298827A1] Mixed phosphatation acid solution suitable for resulting on a metal substrate in the simultaneous deposition of at least two metal ions, at least one of which is generally chosen from the group comprising zinc, manganese and iron, the said solution being characterised in that it includes - a polyphosphate of formula $(XPO_3)_n$ in which $n \geq 3$ and X denotes an alkali or alkaline-earth metal or ammonium, and - a chelating agent.

IPC 1-7

C23C 22/18; **C23C 22/23**

IPC 8 full level

C23C 22/12 (2006.01); **C23C 22/18** (2006.01); **C23C 22/23** (2006.01)

CPC (source: EP US)

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Cited by

US6068710A; EP0946786A4

Designated contracting state (EPC)

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EP 0298827 A1 19890111; **EP 0298827 B1 19930811**; AT E92979 T1 19930815; DE 3883100 D1 19930916; DE 3883100 T2 19940310; ES 2042783 T3 19931216; FR 2618164 A1 19890120; FR 2618164 B1 19940204; JP S6436772 A 19890207; US 5045130 A 19910903

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