

Title (en)

Chemical metal substrate conversion process, bath used therefor and concentrate for preparing the bath

Title (de)

Verfahren zur chemischen Konversion von Metallgegenständen, verwendetes Bad dafür und Konzentrat zur Herstellung des Bades

Title (fr)

Procédé de conversion chimique de substrats métalliques, bain mis en oeuvre dans ce procédé et concentré pour la préparation du bain

Publication

EP 0433118 B1 19960110 (FR)

Application

EP 90403233 A 19901115

Priority

FR 8915042 A 19891116

Abstract (en)

[origin: EP0433118A1] Chemical conversion process characterised in that it comprises the use, at the time of the actual phosphatising stage, of a zinc conversion bath containing phosphate and nitrate ions as well as ferrous or ferric ions and from approximately 21 to approximately 100 g/l of at least one organic chelating agent.

IPC 1-7

C23C 22/13; **C23C 22/17**; **C23C 22/18**; **C23C 22/47**

IPC 8 full level

C23C 22/13 (2006.01); **C23C 22/17** (2006.01); **C23C 22/18** (2006.01); **C23C 22/47** (2006.01)

CPC (source: EP)

C23C 22/17 (2013.01); **C23C 22/182** (2013.01); **C23C 22/47** (2013.01)

Citation (examination)

FR 1243081 A 19601007 - PARKER STE CONTINENTALE

Cited by

US6346295B1; EP1875003A4

Designated contracting state (EPC)

AT BE DE ES GB IT NL SE

DOCDB simple family (publication)

EP 0433118 A1 19910619; **EP 0433118 B1 19960110**; AT E132917 T1 19960115; CA 2030126 A1 19910517; CA 2030126 C 19990511; DE 69024774 D1 19960222; DE 69024774 T2 19960704; ES 2084680 T3 19960516; FR 2654440 A1 19910517; FR 2654440 B1 19930730; JP H03173778 A 19910729; JP H0730454 B2 19950405

DOCDB simple family (application)

EP 90403233 A 19901115; AT 90403233 T 19901115; CA 2030126 A 19901116; DE 69024774 T 19901115; ES 90403233 T 19901115; FR 8915042 A 19891116; JP 30895390 A 19901116