

Title (en)
PROCESS FOR APPLYING CONVERSION COATINGS

Publication
EP 0312176 B1 19921216 (DE)

Application
EP 88202291 A 19881013

Priority
JP 25767887 A 19871013

Abstract (en)
[origin: US4927472A] A conversion coating, predominantly consisting of tin phosphate, can be deposited on steel or tin plated steel surfaces by contact with a solution containing phosphate ions, tin ions, an oxidizing agent such as chlorate, and a chelating agent for the tin ions, the latter to prevent the rapid loss of tin from the solution that otherwise would occur. A coating that confers excellent resistance to corrosion in hot water is formed on drawn and ironed thinly tin plated cans.

IPC 1-7
C23C 22/10; **C23C 22/23**; **C25D 11/36**

IPC 8 full level
C23C 22/10 (2006.01); **C23C 22/23** (2006.01); **C25D 11/36** (2006.01)

CPC (source: EP US)
C23C 22/10 (2013.01 - EP US); **C23C 22/23** (2013.01 - EP US); **C25D 11/36** (2013.01 - EP US)

Cited by
CN103210126A; US5356491A; EP0673445A4; US5370909A; EP1433879A1; EP0678595A1; US5942052A; WO9209720A1; WO9312268A1; WO9119828A1; WO2014012703A1

Designated contracting state (EPC)
BE DE FR IT NL SE

DOCDB simple family (publication)
US 4927472 A 19900522; AU 2371588 A 19890420; AU 608374 B2 19910328; BR 8805286 A 19890530; CA 1321859 C 19930907; DE 3834480 A1 19890427; DE 3876744 D1 19930128; EP 0312176 A1 19890419; EP 0312176 B1 19921216; GB 2210900 A 19890621; GB 2210900 B 19911120; GB 8824016 D0 19881123; JP H01100281 A 19890418; JP H0577750 B2 19931027; MX 169760 B 19930723; ZA 887663 B 19890628

DOCDB simple family (application)
US 25693588 A 19881013; AU 2371588 A 19881013; BR 8805286 A 19881013; CA 579848 A 19881012; DE 3834480 A 19881011; DE 3876744 T 19881013; EP 88202291 A 19881013; GB 8824016 A 19881013; JP 25767887 A 19871013; MX 1339988 A 19881013; ZA 887663 A 19881013