

Title (en)

Method and composition for surface treatment.

Title (de)

Verfahren und Zusammensetzung für Oberflächenbehandlung.

Title (fr)

Procédé et composition pour traitement de surface.

Publication

**EP 0358338 A2 19900314 (EN)**

Application

**EP 89308114 A 19890809**

Priority

- GB 8819259 A 19880812
- GB 8912424 A 19890531

Abstract (en)

A hydrous oxide sol such as a zirconia sol is applied to a solid e.g. metal surface and there cured to form a protective coating. The sol may include an adhesion promoter such as a silane and/or a sub-micron passenger powder. Application to the surface may be in one step, or two steps with the second designed to gel the sol. Depending on the microtexture of the sol and the surface, the treatment can be used to control, by increasing or decreasing, the adhesive properties of the surface to a subsequently applied organic coating, or simply to improve corrosion resistance.

IPC 1-7

**C23C 18/12**

IPC 8 full level

**C23C 18/12** (2006.01); **C23C 22/34** (2006.01); **C23C 22/74** (2006.01); **C23C 26/00** (2006.01)

CPC (source: EP KR)

**C23C 8/10** (2013.01 - KR); **C23C 18/1216** (2013.01 - EP); **C23C 18/1241** (2013.01 - EP); **C23C 18/1254** (2013.01 - EP); **C23C 22/34** (2013.01 - EP); **C23C 22/74** (2013.01 - EP); **C23C 2222/20** (2013.01 - EP)

Cited by

KR100735595B1; US6572983B2; WO2007101529A1; WO2004099465A1; EP1407832A3; EP1367146A3; US5885657A; EP1062378A4; US5720902A; US5449415A; EP2100986A1; US5879437A; GB2394964A; GB2394964B; EP1084992A1; DE19634616A1; DE19634616C2; EP1439243A1; EP1130133A3; EP1978131A1; KR101493458B1; AU724978B2; US11312107B2; US5427632A; EP1130132A3; CN112159974A; US6860933B2; DE102007003761A1; US11173518B2; US8747952B2; US8764916B2; US10041176B2; WO9715959A1; WO9600198A1; WO2008119675A1; US10435806B2; US11591707B2; WO9617896A1; WO9914399A1; US7670648B2; DE102009046673A1; EP2327468A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0358338 A2 19900314**; **EP 0358338 A3 19900411**; **EP 0358338 B1 19940727**; AT E109217 T1 19940815; AU 3951189 A 19900215; AU 625900 B2 19920716; BR 8904061 A 19900327; CA 1337145 C 19951003; CN 1040811 A 19900328; DE 68917059 D1 19940901; DE 68917059 T2 19941117; DK 394089 A 19900213; DK 394089 D0 19890811; ES 2059772 T3 19941116; IN 176027 B 19951223; JP H0285373 A 19900326; KR 900003403 A 19900326; MY 104467 A 19940430; NO 893250 D0 19890811; NO 893250 L 19900213; PT 91432 A 19900308; PT 91432 B 19951229

DOCDB simple family (application)

**EP 89308114 A 19890809**; AT 89308114 T 19890809; AU 3951189 A 19890811; BR 8904061 A 19890811; CA 608068 A 19890811; CN 89107593 A 19890812; DE 68917059 T 19890809; DK 394089 A 19890811; ES 89308114 T 19890809; IN 700DE1989 A 19890807; JP 21000589 A 19890814; KR 890011529 A 19890812; MY P119891093 A 19890810; NO 893250 A 19890811; PT 9143289 A 19890811