Title (en)

ELECTROCHEMICALLY PRODUCED LAYERS FOR PROVIDING CORROSION PROTECTION OR WASH PRIMERS

Title (de)

ELEKTROCHEMISCHE ERZEUGTE SCHICHTEN ZUM KORROSIONSSCHUTZ ODER ALS HAFTGRUND

Title (fr)

COUCHES FORMEES PAR VOIE ELECTROCHIMIQUE ET SERVANT DE PROTECTION ANTICORROSION OU DE PEINTURE PRIMAIRE REACTIVE

Publication

EP 1285105 A1 20030226 (DE)

Application

EP 01933902 A 20010427

Priority

- DE 10022074 A 20000506
- EP 0104780 W 20010427

Abstract (en)

[origin: DE10022074A1] A layer of inorganic compound of a metal (A) is electrochemically-deposited onto the conductive surface from a solution of the metal (A); weight applied being 0.01-10 g/m<2>. The metal (A) is other than that forming the main component of the surface. The inorganic compound contains less than 20 wt% of phosphate ions. An Independent claim is included for a corresponding method of making an at least two-layer coating on an electrically-conductive surface. The second layer is added in a further stage, in which a coating of an organic polymer is applied. Preferred features: The deposited compound is an oxide. Deposition takes place at a potential relative to a standard hydrogen electrode of \! 0.1V to \! 300V; or a current density of \! 0.1 - \! 10000 mAcm<-2>. The inorganic compound is x-ray crystalline. In applying a second layer, a cathodically- or anodically- deposited electro-dip paint is applied. The process is a continuous sheet operation, the polymer layer being applied by dipping, spraying-on or using a coating roller. A powder paint is applied. Adhesive is applied. A corresponding metal component with double layer coating is also claimed.

IPC 1-7

C25D 9/04; C23C 28/00

IPC 8 full level

C23C 28/00 (2006.01); **C25D 9/04** (2006.01); **C25D 13/22** (2006.01)

CPC (source: EP US)

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Citation (search report)

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