

Title (en)

METHOD FOR PHOSPHATIZING, RERINSING AND CATHODIC ELECTRO-DIPCOATING

Title (de)

VERFAHREN ZUR PHOSPHATIERUNG, NACHSPÜLUNG UND KATHODISCHER ELEKTROTAUCHLACKIERUNG

Title (fr)

PROCEDE POUR LA PHOSPHATATION, LE RINAGE ULTERIEUR ET LE TREMPAGE ELECTROPHORETIQUE CATHODIQUE

Publication

EP 1114202 A1 20010711 (DE)

Application

EP 99939400 A 19990723

Priority

- DE 19834796 A 19980801
- EP 9905273 W 19990723

Abstract (en)

[origin: DE19834796A1] The invention relates to a method for the pretreatment of surfaces made of steel, galvanized steel and/or aluminium and/or alloys thereof. According to said method, in a first step the surfaces are phosphatized with a zinc phosphatizing solution having a low nickel content, in a second step the phosphatized surfaces are rerinsed with an aqueous solution containing between 0.001 and 10g/l lithium ions, copper ions and/or silver ions, and in a third step a low-lead, cathodically deposited electro-dipcoating paint is applied which contains no more than 0.05 % by weight lead in relation to the dry substance of the electro-dipcoating paint.

IPC 1-7

C23C 22/00; C23C 22/18; C23C 22/83; C25D 13/20

IPC 8 full level

B05D 3/10 (2006.01); **B05D 7/14** (2006.01); **C23C 22/08** (2006.01); **C23C 22/12** (2006.01); **C23C 22/18** (2006.01); **C23C 22/36** (2006.01);
C23C 22/83 (2006.01); **C23C 28/00** (2006.01); **C25D 13/20** (2006.01)

CPC (source: EP KR US)

C23C 22/07 (2013.01 - KR); **C23C 22/12** (2013.01 - EP US); **C23C 22/182** (2013.01 - EP US); **C23C 22/364** (2013.01 - EP US);
C23C 22/83 (2013.01 - EP US); **C23C 28/00** (2013.01 - EP US); **C25D 13/20** (2013.01 - EP US)

Citation (search report)

See references of WO 0008231A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19834796 A1 20000203; AU 5371499 A 20000228; BR 9912841 A 20010502; CA 2339234 A1 20000217; CN 1311827 A 20010905;
CZ 2001409 A3 20010815; EP 1114202 A1 20010711; JP 2004500479 A 20040108; KR 20010072179 A 20010731; PL 345590 A1 20011217;
SK 1552001 A3 20011008; TR 200100243 T2 20010521; US 6447662 B1 20020910; WO 0008231 A1 20000217

DOCDB simple family (application)

DE 19834796 A 19980801; AU 5371499 A 19990723; BR 9912841 A 19990723; CA 2339234 A 19990723; CN 99809241 A 19990723;
CZ 2001409 A 19990723; EP 9905273 W 19990723; EP 99939400 A 19990723; JP 2000563851 A 19990723; KR 20017001396 A 20010201;
PL 34559099 A 19990723; SK 1552001 A 19990723; TR 200100243 T 19990723; US 74475901 A 20010406