

Title (en)

PHENOLIC-FORMALDEHYDE RESIN COATED METAL SURFACES AND PROCESS THEREOF

Title (de)

MIT PHENOLISCHEM FORMALDEHYDHARZ BESCHICHTETE METALLOBERFLÄCHEN UND VERFAHREN

Title (fr)

SURFACES METALLIQUES PELLICULEES DE RESINE PHENOLIQUE-FORMALDEHYDE ET PROCEDE CORRESPONDANT

Publication

EP 0951581 A1 19991027 (EN)

Application

EP 97936386 A 19970731

Priority

- JP 21928296 A 19960801
- US 9713685 W 19970731

Abstract (en)

[origin: WO9805804A1] Coated metal bearing a coating on its surface that comprises pheno-, naphtol-, or bisphenol-formaldehyde resin comprising specific structural units, has a thickness from 5 to 5000 nm, contains from 5 to 500 mg of carbon atoms present in the resin per m<2> of surface coated, and covers at least 90 % of the surface of the metal, can be subjected to film lamination onto the coating to provide a composite that has an excellent formability, excellent corrosion resistance, excellent adherence between the laminated film and the metal, and excellent environmental safety.

IPC 1-7

C23C 22/07; **B32B 15/08**

IPC 8 full level

C09D 161/08 (2006.01); **B32B 15/08** (2006.01); **C09D 161/04** (2006.01); **C09D 161/06** (2006.01); **C23C 22/07** (2006.01); **C23C 22/08** (2006.01); **C23C 22/36** (2006.01)

CPC (source: EP KR)

B32B 15/08 (2013.01 - EP KR); **C09D 161/06** (2013.01 - EP KR); **C23C 22/08** (2013.01 - EP KR); **C23C 22/36** (2013.01 - EP KR); **C23C 22/361** (2013.01 - EP KR)

Designated contracting state (EPC)

AT DE ES FR GB IT NL SE

DOCDB simple family (publication)

WO 9805804 A1 19980212; AU 3906897 A 19980225; AU 717814 B2 20000330; BR 9710781 A 19990817; CA 2261702 A1 19980212; EP 0951581 A1 19991027; EP 0951581 A4 19991103; JP H1046101 A 19980217; KR 19980018179 A 19980605; TW 362112 B 19990621

DOCDB simple family (application)

US 9713685 W 19970731; AU 3906897 A 19970731; BR 9710781 A 19970731; CA 2261702 A 19970731; EP 97936386 A 19970731; JP 21928296 A 19960801; KR 19970031539 A 19970708; TW 86110645 A 19970726