

Title (en)
COMPOSITIONS FOR POWDER COATING

Publication
EP 0176475 B1 19910925 (DE)

Application
EP 85810379 A 19850819

Priority
GB 8421525 A 19840824

Abstract (en)
[origin: US4757117A] Powder coating compositions suitable for use in the manufacture of laser-engraved printing rollers, comprise (a) a difunctional epoxy resin prepared from a bisphenol, (b) an epoxy resin having an epoxide functionality greater than 2, (c) a diaminodiphenylsulphone as hardener for the mixture of resins (a) and (b), and (d) an imidazole as curing accelerator. These compositions, when applied to a metal base member, fused, and cured, provide a surface that is easily engravable yet has excellent resistance to chemical attack and physical wear. Typical difunctional epoxy resins (a) are 2,2-bis(4-glycidyloxyphenyl)propane advanced with bisphenol A, while typical epoxy resins that may be used as (b) include polyglycidyl ethers of phenol-formaldehyde novolaks. The hardener (c) may be, for example, 3,3'- and 4,4'-diaminodiphenylsulphones and the imidazole accelerator (d) may be 2-methylimidazole or benzimidazole.

IPC 1-7
B41N 1/12

IPC 8 full level
C09D 5/03 (2006.01); **B41D 7/00** (2006.01); **B41N 1/12** (2006.01); **C09D 5/46** (2006.01)

CPC (source: EP US)
B41C 1/05 (2013.01 - EP US); **B41N 1/12** (2013.01 - EP US); **Y10S 525/934** (2013.01 - EP US)

Cited by
EP2522508A3; EP2522509A3; EP0577465A1; FR2693205A1; US5462774A; US6620510B1

Designated contracting state (EPC)
BE CH DE FR GB IT LI NL

DOCDB simple family (publication)
EP 0176475 A2 19860402; EP 0176475 A3 19880316; EP 0176475 B1 19910925; CA 1260190 A 19890926; DE 3584211 D1 19911031; GB 8421525 D0 19840926; JP S6164767 A 19860403; US 4757117 A 19880712

DOCDB simple family (application)
EP 85810379 A 19850819; CA 485029 A 19850625; DE 3584211 T 19850819; GB 8421525 A 19840824; JP 18651985 A 19850824; US 4069287 A 19870417