

Title (en)
Substrates with electrically conducting layers

Title (de)
Substrate mit elektrisch leitfähigen Schichten

Title (fr)
Substrats avec couches électriquement conductrices

Publication
EP 1357226 A2 20031029 (DE)

Application
EP 03008537 A 20030412

Priority
• AT 6142002 A 20020422
• AT 3082003 A 20030303
• CH 2702003 A 20030220

Abstract (en)
A substrate or film carries a layer of an electrically-conductive polymer. Independent claims are also included for (1) production of a substrate carrying an electrically-conductive layer by in-situ polymerization of a monomer or pre-polymer or by application of a polymer dispersion; (2) apparatus for applying the polymer dispersion, the monomer solution or the monomer/initiator or catalyst mixture in a solvent, the apparatus comprising a temperature-controlled application tank, plunge cylinder, application roller or printer; and (3) a magnetic pigment composition for use with the electrically-conductive product, the composition comprising pigments based on iron oxide, iron, nickel-cobalt or alloys, barium, cobalt-ferrite or hard or soft magnetic iron or steel in aqueous, solvent-free or solvent-containing dispersions such as nitrocellulose, acrylate polymer dispersions or mol. wt. 150,000-300,000, acrylate-urethane dispersions or acrylate-styrene or PVC (co)polymer dispersions.

Abstract (de)
Die Erfindung betrifft Substrate mit elektrisch leitfähigen Schichten, wobei die elektrisch leitfähigen Schichten aus elektrisch leitfähigen Polymeren bestehen. Die elektrisch leitfähigen Polymeren können gegebenenfalls in Gegenwart anderer elektrisch leitfähiger und/oder funktioneller und/oder dekorativer Schichten auf dem Substrat vorhanden sein. Die Substrate werden insbesondere unter anderem als Sicherheitselemente, als Bauelemente in der Elektronikindustrie und als dekorative Elemente verwendet. <IMAGE>

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Cited by
EP1841004A1; EP2966221A1; EP1562154A1; US9368010B2; US10671192B2; US8048605B2; WO2004111338A1; WO2006042568A1; WO2005012442A1; US8698863B2; US8753791B2; US8936901B2

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