

Title (en)
PROCESS FOR APPLYING POWDER COATINGS TO METALLIC SURFACES

Publication
EP 0476539 A3 19940713 (DE)

Application
EP 91115563 A 19910913

Priority
DE 4029985 A 19900921

Abstract (en)
[origin: EP0476539A2] In electrostatic powder coating, the starting materials used are metal surfaces which are furnished with an oil film for protection against corrosion during storage and transport. The polymer powder is applied to the surface without removing the oil film. The powder layer is then melted in an oven and is finally cured by cooling. The heat applied by the oven should be sufficient to volatilise the oil. An oil is preferably used which remains stable or resistant during the heating process as long as it remains on the workpiece surface. This includes the possibility that individual components or the entire oil diffuse through the powder layer and evaporate during the heating-up process, or alternatively that part or all of the oil quantity remains on the workpiece during the heating process and mixes with the powder layer. In both cases, the quality of the plastic coating is not adversely affected by the oil film.

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IPC 8 full level
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CPC (source: EP KR US)
B05D 1/06 (2013.01 - EP KR US); **B05D 7/14** (2013.01 - EP US); **B05D 1/12** (2013.01 - EP US)

Citation (search report)
[X] US 4746533 A 19880524 - HUBBARD WILLIAM A [US]

Cited by
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EP 0476539 A2 19920325; **EP 0476539 A3 19940713**; **EP 0476539 B1 19961009**; AT E143837 T1 19961015; AU 639138 B2 19930715; AU 8455291 A 19920326; BR 9104047 A 19920602; CA 2051879 A1 19920322; CA 2051879 C 20000822; CS 287091 A3 19920415; CZ 283154 B6 19980114; DE 4029985 A1 19920326; DE 59108255 D1 19961114; DK 0476539 T3 19970317; ES 2093665 T3 19970101; GR 3021870 T3 19970331; JP 2851728 B2 19990127; JP H06339663 A 19941213; KR 100221771 B1 19990915; KR 920006530 A 19920427; RU 2004385 C1 19931215; SK 279241 B6 19980805; US 5264254 A 19931123; ZA 917425 B 19920527

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