

Title (en)
METHOD AND APPARATUS FOR COATING THREE DIMENSIONAL ARTICLES

Title (de)
VERFAHREN UND GERÄT ZUM BESCHICHTEN DREIDIMENSIONALER ARTIKEL

Title (fr)
PROCEDE ET APPAREIL DE REVETEMENT D'ARTICLES TRIDIMENSIONNELS

Publication
EP 0693973 B1 20011121 (EN)

Application
EP 94914073 A 19940407

Priority
• JP 10516893 A 19930407
• US 9403828 W 19940407

Abstract (en)
[origin: WO9422589A1] A method and apparatus (10) for powder coating three dimensional articles (12) carried on a conveyor (14) includes a controller (36) for controlling the rate at which coating material is discharged from a gun (16), so that the rate is proportional to the surface area of the surface portions of the article (12) as they pass the gun (16). Some surface portions topographically have a greater surface area which must be covered, while others are flat or have cut-out regions, requiring less coverage or no coverage at all. In powder coating operations, the discharge rate is controlled via automatic or programmed control of an electro-pneumatic air regulator (42) which regulates the supply of pressurized air to a powder pump (24) connected to the spray gun (16). The apparatus (10) assures uniformity in coating for a three dimensional article (12) with multiple surface portions of varying topography such as curves, angles, cut outs, etc., while minimizing the amount of wasted coating material.

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Cited by
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