

Title (en)
DEVICE FOR ELECTROSTATIC COATING OF OBJECTS

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Application
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Priority
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Abstract (en)
[origin: US4955960A] Particles of conductive coating material, such as the water-enamel type paint, are sprayed from a grounded bell-atomizer (2) and are electrostatically charged in the corona-discharge area by outer electrodes (10) which are inserted into a holding-arrangement (11, 12, 15) made of an insulating material. Potential-controls in the form of suitably selected materials for the holding-arrangement (11, 12, 15) and/or an atomizer-housing (4) are provided. The radial-potential pattern between the atomizer-housing (4, 6) and the outer electrodes (10) is approximated to the radial-potential distribution of the material sprayed. The insulating material of at least a portion of the apparatus consists of a fluorocarbon such as PTFE (polytetrafluorethylene). The subject invention reduces the danger of the apparatus coating itself.

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