

Title (en)

POWDER CHARGING APPARATUS AND ELECTROSTATIC POWDER COATING APPARATUS

Publication

**EP 0230723 A3 19871014 (EN)**

Application

**EP 86308890 A 19861114**

Priority

JP 25828985 A 19851118

Abstract (en)

[origin: EP0230723A2] It is described a novel powder charging apparatus, wherein a high voltage is applied between a couple of electrodes, consisting of a plasma electrode of required polarity and a plasma electrode of opposite polarity, to form plasma at tip of each of electrodes, an eventually finely dispersed powder is made to pass only through an area wherein mainly ones of negative and positive ions derived of said plasma, that is, ions of required polarity exist, and thereafter the charged powder is discharged. In this apparatus, the adhesion of powder to each electrode is prevented and charging performance is maintained for a long time. It is also described an electrostatic powder coating apparatus comprising the above-described novel powder charging apparatus, which is excellent in performance for making thick coating, depositing efficiency and throwing power.

IPC 1-7

**B05B 5/02**; **B05B 7/14**

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CPC (source: EP)

**B05B 5/032** (2013.01)

Citation (search report)

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