

Title (en)

Spray device for electrostatic powder coating.

Title (de)

Sprühvorrichtung zur elektrostatischen Pulverbeschichtung.

Title (fr)

Appareil de pulvérisation pour l'application électrostatique de poudre.

Publication

EP 0212122 A1 19870304 (DE)

Application

EP 86108211 A 19860616

Priority

DE 3529703 A 19850820

Abstract (en)

[origin: ES8707677A1] A versatile spraying gun includes main tool and several attachment tools any one of which can be inserted in the main tool. Each attachment tool is designed to atomize powder particles that are to be sprayed on an article in accordance with a specific spraying method and atomization principle and method. The main common tool is comprised primarily of a body that defines a powder delivery channel and a coupling piece and discharge electrode located upstream in the delivery channel. The attachment tools have a flow guide member disposed axially within the delivery channel and an attachment piece for attaching the attachment tool to the coupling piece of the main tool. In some attachment tools, the flow guide member also houses a high voltage circuit and appropriate electrodes needed for electrostatic charging of the powder which passes through an electrical field set up between the electrodes.

Abstract (de)

Es sind ein Hauptgerät (2) und mehrere alternativ in das Hauptgerät einsetzbare Zusatzgeräte (50) vorgesehen, welche letztere jeweils für ein anderes Verfahren zur elektrischen Aufladung des Pulvers ausgebildet sind.

IPC 1-7

B65B 5/02

IPC 8 full level

B05B 5/025 (2006.01); **B05B 5/047** (2006.01)

CPC (source: EP US)

B05B 5/047 (2013.01 - EP US)

Citation (search report)

- [A] US 4417696 A 19831129 - KAKO HIROYOSHI [JP], et al
- [A] US 4266721 A 19810512 - SICKLES JAMES E

Cited by

WO8704088A1

Designated contracting state (EPC)

BE CH FR GB IT LI NL SE

DOCDB simple family (publication)

DE 3529703 C1 19860828; EP 0212122 A1 19870304; EP 0212122 B1 19881026; ES 556433 A0 19870816; ES 8707677 A1 19870816; JP S6316066 A 19880123; US 4747546 A 19880531

DOCDB simple family (application)

DE 3529703 A 19850820; EP 86108211 A 19860616; ES 556433 A 19860623; JP 17265486 A 19860721; US 89749486 A 19860815