

Title (en)

Method and apparatus for powder coating with purging air supply

Title (de)

Verfahren und Vorrichtung zum Pulver-Sprühbeschichten

Title (fr)

Méthode et appareil de revêtement par poudre avec alimentation d'air de purge

Publication

**EP 0913203 A1 19990506 (DE)**

Application

**EP 98115238 A 19980813**

Priority

DE 19748375 A 19971103

Abstract (en)

The arrangement has a powder spray device (2), an injector (26) for pneumatic powder delivery to the spray device and a powder line (22) connecting an injector powder outlet to a spray device powder inlet. The injector, powder line and spray device form an air-powder path with at least one flushing air inlet (73) at a flushing air delivery point, from where the flow resistance downstream to the spray device is smaller than upstream to the injector. The inlet is connected via an automatically switchable blocking element to a compressed air source to drive flushing air from the inlet through the air-powder path out of the spray device. An independent claim is also included for a method of using the arrangement.

Abstract (de)

Pulver-Sprühbeschichtungsvorrichtung enthaltend eine Sprühhvorrichtung (2); einen Injektor (26) zur pneumatischen Förderung von Pulver zur Sprühhvorrichtung (2); mindestens einen Spülluft-Einlaß (73) zur Zufuhr von Spül-Druckluft in den Luft-Pulver-Weg an einer Spülluft-Zufuhr-Stelle, von wo der Strömungswiderstand für die Spül-Druckluft stromabwärts bis durch die Sprühhvorrichtung (2) hindurch kleiner ist als stromaufwärts bis durch den Injektor (26) hindurch, um Spül-Druckluft von dem Spülluft-Einlaß (73) durch den Luft-Pulver-Weg aus der Sprühhvorrichtung (2) zu treiben.  
<IMAGE>

IPC 1-7

**B05B 7/14**; **B05B 5/16**

IPC 8 full level

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CPC (source: EP US)

**B05B 7/1404** (2013.01 - EP US); **B05B 7/1472** (2013.01 - EP US); **B05B 7/1486** (2013.01 - EP US)

Citation (search report)

- [X] EP 0204437 A2 19861210 - NORDSON CORP [US]
- [A] US 4314669 A 19820209 - MOOS KURT
- [A] DE 19519092 A1 19951130 - I T M CORP [JP]
- [A] EP 0689875 A2 19960103 - GEMA VOLSTATIC AG [CH]
- [A] DE 3542710 A1 19870604 - BOHNACKER TEGOMETALL [DE]
- [A] WO 9413405 A1 19940623 - NORDSON CORP [US], et al

Cited by

CN102632001A; FR3004767A1; US9636695B2; US7607451B2; WO2014170374A1; WO0015347A3; WO2006024417A1; US6223997B1; US6375093B1; EP1477231B2

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DOCDB simple family (application)

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