

Title (en)  
IMPROVED POWDER COATING SYSTEM FOR DIFFICULT TO HANDLE POWDERS

Title (de)  
PULVERAUFTRAGESYSTEM FÜR SCHWER ZU HANDHABENDE PULVER

Title (fr)  
SYSTEME D'ENDUCTION DE POUDRE PERFECTIONNE POUR DES POUDRES DIFFICILES A MANIPULER

Publication  
**EP 0674548 B1 20011114 (EN)**

Application  
**EP 94909423 A 19931216**

Priority

- JP 35468592 A 19921217
- JP 6763493 A 19930303
- JP 10189493 A 19930405
- JP 11784193 A 19930421
- US 9312391 W 19931216

Abstract (en)  
[origin: WO9413405A1] An improved method and apparatus (110) for air transport of powder particles includes a reverse flow nozzle (128) within a pump body (112) aimed at an inlet (120) which connects the pump body (112) to a fluidized powder hopper (114). In one aspect of the invention, during powder pumping caused by spraying pressurized air out of an ejector nozzle (122) in the pump body (112), reverse pulses from the reverse flow nozzle (128) are directed from the pump body (112) into the inlet (120) against the normal flow direction of the powder, thereby to prevent accumulation and adherence of powder within the inlet (120) and to assure uniformity in powder delivery per unit time to an article to be coated.

IPC 1-7  
**B05B 7/14**; B05C 13/02; B05C 11/10; B05C 13/00; B05D 1/06

IPC 8 full level  
**B05B 5/16** (2006.01); **B05B 15/25** (2018.01); **B05B 7/14** (2006.01); **B05B 15/00** (2006.01)

CPC (source: EP)  
**B05B 5/1683** (2013.01); **B05B 15/25** (2018.01); **B05B 7/1404** (2013.01)

Designated contracting state (EPC)  
CH DE FR GB IT LI

DOCDB simple family (publication)  
**WO 9413405 A1 19940623**; AU 6227094 A 19940704; CA 2150474 A1 19940623; CA 2150474 C 20040406; DE 69331148 D1 20011220; DE 69331148 T2 20020711; EP 0674548 A1 19951004; EP 0674548 A4 19961106; EP 0674548 B1 20011114

DOCDB simple family (application)  
**US 9312391 W 19931216**; AU 6227094 A 19931216; CA 2150474 A 19931216; DE 69331148 T 19931216; EP 94909423 A 19931216