

Title (en)

METHOD FOR REDUCING AMBIENT INFLUENCES ON THE POWDER COATING OF OBJECTS, AND APPARATUS FOR POWDER COATING OF OBJECTS, AND APPARATUS FOR POWDER COATING

Publication

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Application

EP 88118916 A 19881114

Priority

DE 3743864 A 19871223

Abstract (en)

[origin: EP0321693A2] On a powder coating apparatus in which powder is issued from a feed line (11) towards a workpiece, such as a tin can blank (51) and excess powder is sucked back by means of extraction lines (29, 25), a conditioning chamber (21) is arranged around the coating zone (15) in order to ensure that the issued powder is not contaminated by being influenced by the surroundings (U). An air stream (S), produced from openings (23) of the chamber (21) is provided in order to direct the tin can blanks (51) into and through the chamber (21). As a result, costly powder reprocessing systems for sucked-back and reapplied powder are superfluous and, nevertheless, the powder can be used to an optimum degree in a closed circuit. <IMAGE>

IPC 1-7

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B05B 7/14 (2006.01); **B05B 5/16** (2006.01); **B05B 13/06** (2006.01); **B05B 15/12** (2006.01); **B05B 16/60** (2018.01); **B05C 19/00** (2006.01); **B05D 1/06** (2006.01); **B05D 1/12** (2006.01); **B05D 3/00** (2006.01)

CPC (source: EP US)

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Citation (search report)

- [A] EP 0230147 A2 19870729 - PROTECTAIRE SYST [US]
- [A] BE 676226 A 19660616
- [A] FR 2153249 A1 19730504 - IBM

Cited by

FR2705591A1; CN104275263A; EP0510463A1; US5286294A; WO9427731A1

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