

Title (en)
SPRAY BOOTH FOR ELECTROSTATIC POWDER COATING

Publication
EP 0123967 B1 19860618 (DE)

Application
EP 84103862 A 19840407

Priority
DE 3315426 A 19830428

Abstract (en)
[origin: EP0123967A1] The wall of a powder spraying booth intended to the pulverent coating of work-pieces is comprised of profiled metal plate elements (17, 172) connected to earth connections (21) so that the booth acts has an earthing cage. On the inner sides of the booth there are arranged, by means of an adhering layer (23) based on insulating glue, separated sheets or plates (31), which are also based on electrically insulating glue, which touch each other and which, optionally, also touch the hollow moulding flanges (34) based on insulating glue to be installed in the corners, which are connected by welds (36) or glued so as to form a smooth surface. Thereby, the whole inner side of the booth is configured so as to present a smooth surface without curves, thereby facilitating the cleaning and, owing to the insulation with respect to the earthed outer booth part, the inner side is charged to the same polarity by the spraying powder. The powder which approaches the booth wall is pushed back by electrostatic forces before adhering. Thereby, deposits on the booth wall are substantially reduced.

IPC 1-7
B05B 5/08; **B05C 15/00**

IPC 8 full level
B05B 5/08 (2006.01); **B05B 15/12** (2006.01); **B05B 16/40** (2018.01); **B05C 15/00** (2006.01)

CPC (source: EP)
B05B 5/087 (2013.01); **B05B 16/40** (2018.01)

Cited by
EP0306390A1; EP0402604A3; DE4242543A1; FR2620355A1; DE4134702A1; EP1759772A1; FR2619519A1; EP0867674A3; EP0200681A1; US4715314A; WO2014071904A1

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

DOCDB simple family (publication)
EP 0123967 A1 19841107; **EP 0123967 B1 19860618**; DE 3315426 A1 19841031; DE 3460241 D1 19860724; WO 8404260 A1 19841108

DOCDB simple family (application)
EP 84103862 A 19840407; DE 3315426 A 19830428; DE 3460241 T 19840407; EP 8400103 W 19840407