

Title (en)
POWDER COATING BOOTH

Title (de)
PULVERBESCHICHTUNGSKABINE

Title (fr)
CABINE DE REVETEMENT PAR PULVERISATION DE POUDRE

Publication
EP 0789628 A1 19970820 (DE)

Application
EP 95935952 A 19951020

Priority
• DE 4437968 A 19941024
• DE 19524327 A 19950704
• EP 9504115 W 19951020

Abstract (en)
[origin: WO9612568A1] The invention concerns a powder coating booth (1) comprising at least one spraying unit (4) connected to at least one powder-preparation and feed unit (6). This booth has a small base surface and is in the form of a column whose height depends on the workpiece to be coated. A closable slot (3) is provided in at least one of the booth walls and is designed for the passage of at least one powder-spraying unit (4). In cross-section, the booth can be circular or square or combined, for example oval, rectangular or the like. When the slot(s) (3) is (are) closed, a cleaning unit (20) is introduced and automatically cleans the booth interior. In addition, at least one double flap arrangement (32) can be provided on a booth wall area such that the booth can be switched universally to automatic and/or manual operation. If a lock device is provided on the inlet and/or outlet side, it can be transformed to form a pre-coating space or after-coating space. Furthermore, preferably at least the booth wall area opposite the powder-spraying unit (4) is non-conductive. To this end, this wall area can be made totally or partially from a non-conductive material. If necessary, a non-conductive coating can be applied to the corresponding necessary areas or to entire wall surfaces.

IPC 1-7
B05B 15/12

IPC 8 full level
B05B 14/41 (2018.01); **B05B 14/48** (2018.01); **B05B 15/12** (2006.01); **B05B 16/25** (2018.01); **B05B 16/40** (2018.01)

CPC (source: EP)
B05B 14/41 (2018.01); **B05B 14/48** (2018.01); **B05B 16/25** (2018.01); **B05B 16/405** (2018.01)

Citation (search report)
See references of WO 9612568A1

Cited by
DE10158826C1; US6783595B2; US6730167B2; US6866717B2; US8714101B2; US9221069B2

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)
WO 9612568 A1 19960502; AT E175900 T1 19990215; DE 29521972 U1 19981224; EP 0789628 A1 19970820; EP 0789628 B1 19990120

DOCDB simple family (application)
EP 9504115 W 19951020; AT 95935952 T 19951020; DE 29521972 U 19950704; EP 95935952 A 19951020