

Title (en)

Device for cleaning the exhaust air from paint spray booths

Title (de)

Anordnung zum Reinigen der Abluft aus Spritzlack-Kabinen

Title (fr)

Arrangement pour le nettoyage de l'air évacué d'une cabine de pulvérisation de peinture

Publication

**EP 0561351 B2 20041208 (DE)**

Application

**EP 93104275 A 19930316**

Priority

- DE 4208877 A 19920319
- DE 4222016 A 19920704

Abstract (en)

[origin: EP0561351A1] In the case of known paint spray booths, the exhaust air is removed by means of venturi scrubbing installations arranged under said booths. Frequently occurring disruptions to the production flow caused by clogging, a high noise level and elaborate dirt separating installations, and also by deposits in the water feed pipes, have disadvantageous effects. The novel arrangement is intended to reduce considerably or even eliminate the disadvantages mentioned. For this purpose, underneath sloping trickle plates (3, 3', 4, 5) of the venturi scrubbing installation there are arranged specifically the scrubbing nozzle (11) vertically, the scrubbing nozzle itself (11) and a following system of knocking-down bars (12) off-centrally and an exhaust air duct (15) is conducted inside the basic dimensions of the paint spray booth. The bottom plate (B) of the water distributor channel (R) runs over its entire length at a slope to the plates of the scrubber (W) and directly joins the bottom pan (BW), forming a water through-flow gap (SP) with respect to the neighbouring channel side (RS1). The circulating water feed pipes (ZR) open out in the head region (RK) of the channel (R) into the latter and arranged in the region between the feed pipes (ZR) and the water through-flow gap (SP) are baffle plates or distributor plates (VT) for making the water flow more uniform. <IMAGE>

IPC 1-7

**B05B 15/12**

IPC 8 full level

**B05B 14/46** (2018.01); **B05B 14/468** (2018.01); **B05B 15/12** (2006.01)

CPC (source: EP)

**B05B 14/46** (2018.01); **B05B 14/468** (2018.01)

Citation (opposition)

Opponent :

- DE 3303338 A1 19840802 - DUERR OTTO ANLAGEN GMBH [DE]
- DE 2746738 A1 19780907 - DUERR OTTO LTD
- DE 3317230 A1 19840301 - FLAEKT AB [SE]

Cited by

GB2353958A; CN114985175A; DE102005013709B4; WO9521027A1

Designated contracting state (EPC)

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**EP 0561351 A1 19930922**; **EP 0561351 B1 19970820**; **EP 0561351 B2 20041208**; AT E157027 T1 19970915; DE 59307137 D1 19970925; ES 2108150 T3 19971216; ES 2108150 T5 20050701

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