

Title (en)  
Device for dust removal

Title (de)  
Vorrichtung zum Abführen von Staub

Title (fr)  
Dispositif pour l'élimination de la poussière

Publication  
**EP 0520145 B1 19951213 (DE)**

Application  
**EP 92105220 A 19920326**

Priority  
DE 4120973 A 19910625

Abstract (en)  
[origin: EP0520145A1] The invention relates to a device for the removal of dust adhering to film-like material webs (2) - for example paper, plastic or textile webs - or sheets and continuous webs, having at least one first discharge electrode (3) and having a first and second suction chamber (4, 5), which is characterised in that first disturbance openings (6) are arranged on the side of the material web (2) directed towards the suction chambers (4, 5), in that first disturbance openings (6) are arranged downstream of the first discharge electrode (3) and upstream of the first suction chamber (4) in the direction of travel of the material web, in that the first disturbance openings (6) open into a first gap (9) formed between the first disturbance openings (6) and the material web (7), in that the air current passing through the first disturbance openings (6) is directed onto the material web surface and in that the first suction chamber is designed such that the dust-laden air is sucked in at an angle  $\alpha$  to the surface of the material web. d

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Cited by  
CN102247959A; IT202000004462A1; EP3885056A1; EP0640411A1; EP1787732A1; DE10018010A1; DE10018010C2; DE10211309A1; EP1344578A3; DE102007052573A1; EP1793943A4; DE102007052573B4; EP0608498A1; US5519945A; US5651832A; DE10252377A1; DE10252377B4; EP1852192A3; CN102513308A; US6868785B2; US9108229B2; US8657998B2

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