

Title (en)

DEVICE FOR OPENING AND DISTRIBUTING A BUNDLE OF FILAMENTS WHEN PRODUCING A NONWOVEN TEXTILE WEB

Title (de)

ÖFFNUNG UND AUFTEILUNGSVORRICHTUNG FÜR EIN FILAMENTBÜNDEL BEIM HERSTELLEN EINER VLIESBAHN

Title (fr)

DISPOSITIF PERMETTANT D'ASSURER L'OUVERTURE ET LA REPARTITION D'UN FAISCEAU DE FILAMENTS LORS DE LA REALISATION D'UNE NAPPE TEXTILE NON TISSEE

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Application

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Abstract (en)

[origin: US6966762B1] The invention concerns a device for opening and distributing a bundle of filaments when producing a nonwoven textile web by a technique which consists in: extruding melted organic polymer through a die perforated with holes, so as to form a bundle or curtain of filaments; then directing the extruded filaments by drawing by means of one or several fluid jets; and finally, receiving the bundle of filaments in the form of a web on a mobile conveyor belt. The invention is characterised in that it consists of an assembly arranged downstream of the outlet of the drawing assembly and separate therefrom, said assembly comprising, arranged in the proximity of the drawing slot outlet, a diffuser comprising an intake zone shaped as a convergent nozzle extending over the whole width of the installation opposite the drawing slot outlet producing the web, extended by a divergent nozzle, said assembly being associated with a ramp electrostatically charging the filaments before they are received on the receiving belt.

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IPC 8 full level

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