Title (en)

DEVICE FOR THE FLOATING GUIDING OF MATERIAL WEBS BY MEANS OF A GAS OR A LIQUID

Publication

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Application

EP 87102560 A 19870224

Priority

DE 3607371 A 19860306

Abstract (en)

[origin: US4843731A] The invention relates to a device for floatably guiding webs of material by means of a gaseous or liquid medium. The device comprises one or more elongate flow elements having a surface which is arched more particularly convexly to the web of material which are disposed in succession in the direction of travel of the web and transversely thereof, and nozzles so disposed in rows at a distance from such surface that the free jets emerging from the nozzles blow on the surface of the flow member at a shallow approach flow angle and are converted on the surface into wall jets, before they blow on the web of material, more particularly by reversal of flow. More particularly nozzles associated with both longitudinal edges of each flow member and delivering free jets directed towards one another produce on contrast with conventional devices, which operate on the supporting surface or air cushion principle, improved supporting behavior with a strongly progressive characteristic in the proximal zone of the web of material and a relatively steep entry into the zero value of the supporting force.

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F26B 3/283 (2013.01 - EP US); **F26B 3/305** (2013.01 - EP US); **F26B 13/104** (2013.01 - EP US)

Citation (search report)

- [A] FR 1395604 A 19650416
- [A] DE 1474239 A1 19720224 - VITS MASCHINENBAU GMBH
- [A] DE 2120805 A1 19721116
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