

Title (en)
DEVICE FOR THE SUSPENSION GUIDANCE OF A TRAVELLING WEB

Title (de)
VORRICHTUNG ZUM SCHWEBENDFÜHREN EINER LAUFENDEN BAHN

Title (fr)
DISPOSITIF POUR LE GUIDAGE EN SUSPENSION DANS L'AIR D'UNE BANDE EN DEFILEMENT

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Application
EP 94928287 A 19941006

Priority
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Abstract (en)
[origin: US6502735B1] A device (100) for the suspension guidance of a travelling paper or paper-like web (B) by air and which is especially useful for deflecting a damp travelling paper web. The device has a plurality of air ducts (13) extending over the width of the web and bounded by wall surfaces (14). Each air duct (13) has a nozzle arrangement (22,22') communicating with a pressure chamber (10) to which compressed air is applied. In the air ducts (13) there are also air inlet apertures (26) which are not in fluid connection with the pressure chamber (10) but communicate through an intake duct (27) with an intake chamber (17) in which ambient pressure prevails and which has an inlet (19) for the fluid. Additional inlets (26) convey an additional quantity of air into each of the air ducts owing to the injector effect of the compressed air flowing into the air duct, thus preventing the web from forming a curvature transverse to the direction of its movement corresponding to the air duct cross-section and reducing the power consumption of the device by some 25% as compared with conventional suspension guidance devices.

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