

Title (en)

DEVICE FOR GUIDING OR TREATING A CONTINUOUS LINE OF MATERIAL IN A CONTACTLESS MANNER, ESPECIALLY A LINE OF PAPER OR CARDBOARD OR A METAL OR PLASTIC FILM

Title (de)

VORRICHTUNG ZUM BERÜHRUNGSLOSEN FÜHREN ODER BEHANDELN EINER LAUFENDEN MATERIALBAHN, INSBESONDERE PAPIER- ODER KARTONBAHN, METALL- ODER KUNSTSTOFFFOLIE

Title (fr)

DISPOSITIF POUR GUIDAGE OU TRAITEMENT SANS CONTACT D'UNE BANDE DE MATERIAU, NOTAMMENT UNE BANDE DE PAPIER OU DE CARTON, D'UN FILM METALLIQUE OU PLASTIQUE

Publication

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Application

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Abstract (en)

[origin: US6635111B1] Known devices for contactlessly guiding or treating continuous lines of material (1) have one chamber (2). A supply device (3) for a gaseous fluid is connected to said chamber (2), which has a gas-permeable wall (4). The outer surface (5) of said wall (4) is embodied as a guide surface for the line (1). According to the invention, the gas-permeable wall (4) is produced from a porous, metal-containing material with open pores which have an average diameter of less than 500 µm, preferably less than 100 µm, especially less than 20 µm. The porous material used for the guiding surface enables the line (1) to glide on a fluid pad of less than 1 mm. The losses of fluid on the surfaces not covered by the line (1) are very low.

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IPC 8 full level

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Cited by

DE102004007374B3; DE10349890B4; DE102004031366B4; DE202004021518U1; DE202010009955U1; US7025303B2; US7604770B2; US7479003B2

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