

Title (en)

DEVICE FOR THE SUSPENDED TRANSPORT OF STRIP OR SHEET MATERIAL IN A PROCESSING MACHINE

Title (de)

VORRICHTUNG ZUM SCHWEBENDEN FÜHREN VON BAHN- ODER BOGENMATERIAL IN EINER VERARBEITUNGSMASCHINE

Title (fr)

DISPOSITIF DE TRANSPORT FLOTTANT DE MATIERE EN BANDE OU EN FEUILLES DANS UNE MACHINE DE TRAITEMENT

Publication

EP 1345835 A2 20030924 (DE)

Application

EP 01986860 A 20011211

Priority

- DE 10064531 A 20001222
- EP 0114504 W 20011211

Abstract (en)

[origin: WO02051732A2] The invention relates to a device for the suspended transport of strip or sheet material in a processing machine. The aim of the invention is the production of such a device with, in particular, an equally distributed pressure generation for the suspended transport of strip or sheet material along a guide surface with a significant reduction in the risk of crashing. Said aim is achieved, whereby the device comprises a closed, pneumatically supplied guide surface (13), functionally connected to at least one flow channel, coupled to a pneumatic system, a number of nozzles (23) with outlet openings and, adjacent thereto, guide surfaces set at an angle into the inner side of the flow channel. The guide surface (13) comprises a first guide zone (I) in the transport direction (12), in which the outlet openings for the nozzles (23), at the beginning of the guide surface (13), are directed against the transport direction (12) of the strip or sheet material. A second guide zone (II) is arranged after the first guide zone (I), in which the nozzles change orientation with regard to the outlet direction thereof to point towards the side edges (25) and a third guide zone (III) is arranged after the second guide zone (II) in which the nozzles (23) are arranged with the outlets thereof at right angles to the direction of transport (12), in the direction of both side edges (25).

IPC 1-7

B65H 23/24

IPC 8 full level

B65H 29/24 (2006.01); **B65H 5/22** (2006.01); **B65H 23/24** (2006.01)

CPC (source: EP)

B65H 5/228 (2013.01); **B65H 23/24** (2013.01); **B65H 2406/112** (2013.01)

Citation (search report)

See references of WO 02051732A2

Designated contracting state (EPC)

AT CH DE FR GB IT LI SE

DOCDB simple family (publication)

WO 02051732 A2 20020704; **WO 02051732 A3 20021107**; AT E320999 T1 20060415; AU 2002238417 A1 20020708; CN 1258472 C 20060607; CN 1482989 A 20040317; CZ 20031726 A3 20040512; DE 10064531 A1 20020718; DE 10064531 C2 20021107; DE 50109322 D1 20060511; EP 1345835 A2 20030924; EP 1345835 B1 20060322; JP 2004516211 A 20040603; JP 3703803 B2 20051005

DOCDB simple family (application)

EP 0114504 W 20011211; AT 01986860 T 20011211; AU 2002238417 A 20011211; CN 01821193 A 20011211; CZ 20031726 A 20011211; DE 10064531 A 20001222; DE 50109322 T 20011211; EP 01986860 A 20011211; JP 2002552839 A 20011211