

Title (en)
DEVICE FOR SUSPENDED GUIDANCE OF STRIP-LIKE MATERIALS

Title (de)
VORRICHTUNG ZUM SCHWEBENDEN FÜHREN VON BAHNFÖRMIGEM MATERIAL

Title (fr)
DISPOSITIF DE GUIDAGE FLOTTANT D'UN MATERIAU EN BANDE

Publication
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Application
EP 04797984 A 20041118

Priority
• EP 2004013091 W 20041118
• DE 10358142 A 20031210

Abstract (en)
[origin: WO2005056448A1] The invention relates to a device for suspended guidance of strip-like material (B), in particular metal strips, by means of a gas with at least one unit, in which suspending jet fields (2, 3) with nozzle bars (2a, 3a), are arranged facing both surfaces of the strip-like material (B), from which the gas flows onto the strip-like material (B) and each suspending jet field (2, 3) is supplied with gas from a provided radial fan (5, 6), laterally displaced from said suspending nozzle field (2, 3) with relation to the strip-like material (B), arranged in a spiral housing (2a, 3a) through a flow channel system (S1, S2), whereby both radial fans (5, 6) in the unit are arranged on the same side with relation to the strip-like material. Said device is characterized in that the flow channel system (S1, S2) has a U-shaped profile, viewed in the transport direction of the strip-like material, such that the gas flows, generated by the radial fans (5, 6), exit from the spiral housings (5a, 6a) in a plane perpendicular to the surface of the strip-like material (B) and then, by double diversion about ca. 90 DEG each time, flow into the nozzle bars (2a, 3a) of the suspending jet fields (2, 3) at the rear side thereof.

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CPC (source: EP)
B65H 23/24 (2013.01); **F26B 13/104** (2013.01)

Citation (opposition)
Opponent :
EP 0864519 B1 20030625 - KRAMER CARL [DE]

Cited by
DE102016101160A1; WO2012164056A1; DE102011103806B3; DE102016101160B4; DE102019102595A1; WO2020157087A1;
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