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

EP 1699721 B1 20080116 (DE)

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.

IPC 8 full level

B65H 23/24 (2006.01); **F26B 13/10** (2006.01); **F26B 13/20** (2006.01)

CPC (source: EP)

B65H 23/24 (2013.01); **F26B 13/104** (2013.01)

Cited by

DE102016101160A1; WO2012164056A1; DE102011103806B3; DE102016101160B4; DE102019102595A1; WO2020157087A1; DE202011105018U1; DE202016101584U1

Designated contracting state (EPC)

AT DE IT

DOCDB simple family (publication)

WO 2005056448 A1 20050623; AT E384020 T1 20080215; DE 10358142 A1 20050714; DE 502004005996 D1 20080306; EP 1699721 A1 20060913; EP 1699721 B1 20080116; EP 1699721 B2 20111130

DOCDB simple family (application)

EP 2004013091 W 20041118; AT 04797984 T 20041118; DE 10358142 A 20031210; DE 502004005996 T 20041118; EP 04797984 A 20041118