Title (en)

DEVICE FOR INTERMINGLING YARN

Title (de)

GARNVERWIRBELUNGSVORRICHTUNG

Title (fr)

DISPOSITIF POUR ENTREMELER DES FILS

Publication

EP 1030938 A2 20000830 (DE)

Application

EP 98961002 A 19981009

Priority

- DE 9802998 W 19981009
- DE 19745182 A 19971013

Abstract (en)

[origin: DE19745182A1] The device has a compressed air medium flow through the opening cross section of the blowing jet assembly (35) which is divided into a main stream, and at least two side streams. The main stream has a higher volume flow than each of the side streams. The main jet stream is at the center section (29) of the yarn channel (13), and a side stream is at each of the two edge zones (33) of the yarn channel. The opening cross section is formed by a blower jet (37a) or from a number of jets in the blower assembly (35) and preferably two or three jets. The main stream follows or precedes the side streams, in the direction of yarn travel. The main and side streams are parallel to each other in the yarn channel and can flow in different and opposite directions. The side streams can be against each other, and can flow across the line of the main stream. The opening cross section is symmetrical to a lateral axis (41), at right angles to the longitudinal axis (26), or it is asymmetrical to the lateral axis (41). The opening cross section is in the shape of a cross, star, quadrilateral, triangle, T-shaped, X-shaped, Y-shaped, C-, U-, V-, or W-shaped. A partial opening cross section, to give the main stream flow from the jet, can be rounded, circular, elliptical, oval or V-shaped. The main stream can be composed of a number of partial main streams. The blowing jet (37a) is aligned at an angle delta to the longitudinal channel axis (26) of 60 deg <= delta <= 90 deg and preferably 75 deg \^d <= 87 deg or at delta <= 60 deg .

IPC 1-7

D02J 1/08

IPC 8 full level

D02G 1/16 (2006.01); **D02J 1/08** (2006.01)

CPC (source: EP US)

D02G 1/161 (2013.01 - EP US); **D02J 1/08** (2013.01 - EP US)

Citation (search report)

See references of WO 9919549A2

Cited by

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Designated contracting state (EPC)

CH DE FR GB IT LI

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DE 19745182 A1 19990415; **DE 19745182 C2 20000518**; DE 59803781 D1 20020516; EP 1030938 A2 20000830; EP 1030938 B1 20020410; JP 2001520325 A 20011030; JP 3656954 B2 20050608; TW 494150 B 20020711; US 6112386 A 20000905; WO 9919549 A2 19990422; WO 9919549 A3 19990708

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