

Title (en)

Device for entangling multifilament yarns.

Title (de)

Vorrichtung zum Verwirbeln von Multifilamentgarnen.

Title (fr)

Dispositif pour l'entrelacement des fils multifilaments.

Publication

EP 0465407 B1 19940420 (DE)

Application

EP 91810427 A 19910605

Priority

CH 219790 A 19900702

Abstract (en)

[origin: US5146660A] The device comprises a body (1, 2) with a continuous yarn channel into which terminate a blast nozzle (7) and a threading slot (8). The yarn channel is defined by two hollow wall surfaces (11.1, 11.2 and 12.1, 12.3) emanating from respectively one rim of the orifice of the threading slot (8) and being symmetrical with respect to a plane of symmetry (E) containing the axis (A) of the yarn channel. The two wall surfaces contain jointly at least four component surfaces (11.1, 11.2, 11.3, 12.1, 12.2, 12.3) of which at least two (11.1, 11.2, 12.1, 12.2, 12.3) are planar. The rim of the orifice of the threading slot (8) lying on the side of the blast nozzle (7) has a larger spacing from the plane of symmetry (E) than the other rim. Thread guides (13) are inserted in the body (1, 2) at both ends of the yarn channel, keeping the multifilament yarn to be air-bulked at a distance from the orifice of the blast nozzle (7). This geometry achieves, with a low consumption of blowing air, high air-bulking densities, measured as the number of air-bulk knots per meter of yarn length.

IPC 1-7

D02J 1/08

IPC 8 full level

D02G 1/16 (2006.01); **D02G 3/04** (2006.01); **D02J 1/00** (2006.01); **D02J 1/08** (2006.01)

CPC (source: EP KR US)

D01D 5/00 (2013.01 - KR); **D02G 1/16** (2013.01 - KR); **D02J 1/00** (2013.01 - KR); **D02J 1/08** (2013.01 - EP KR US)

Cited by

CN114746592A; DE19700817A1; DE19700817C2; EP0564400A1; CN1039730C; CN106435908A; EP2055818A1; US6834417B1; DE102011114822A1; WO2013034318A3; US9422645B2

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