Title (en)

AUXILIARY BLOW NOZZLE FOR AN AIR JET WEAVING MACHINE

Title (de)

HILFSBLASDÜSE FÜR EINE LUFTDÜSENWEBMASCHINE

Title (fr)

BUSE DE SOUFFLAGE AUXILIAIRE DESTINEE A UN METIER A TISSER A BUSE D'AIR

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Application

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Abstract (en)

[origin: US6138719A] PCT No. PCT/DE98/03412 Sec. 371 Date Jul. 14, 1999 Sec. 102(e) Date Jul. 14, 1999 PCT Filed Nov. 18, 1998 PCT Pub. No. WO99/27171 PCT Pub. Date Jun. 3, 1999The invention relates to an auxiliary blow nozzle for air jet weaving machines which permits a symmetric division of the warp, said division protecting the structure of the warp threads, when the blow nozzle is immersed in the warp. To this end, an envelope curve (5) which describes the free end (1b) of the nozzle body (1) and which has a radius (R1) runs at an angle (alpha) relative to the longitudinal axis (4a) of the approximately elliptic cross-section of a nozzle body end area (1a). The surfaces (6, 7) originating from the envelope curve (5) slope downward on both sides to the outer periphery (4) in a manner similar to a roof, and said surfaces (6, 7) thus enclose an angle (beta). The respective surface (6, 7) having a radius (R2) graduates into the outer periphery (4). A radius (R3) connects radius (R1) of the envelope curve (5) to the outer periphery (4), and each surface (6, 7) constructs an arc-shaped surface section (6a, 7a) which slopes downward at an angle (gamma) relative to the outer periphery (4). The graduations of said surface sections into the adjacent surfaces (6, 7) and into the outer periphery (4) are rounded.

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