Title (en)

JET DYEING APPARATUS AND METHOD

Title (de)

JETFÄRBENVORRICHTUNG UND VERFAHREN

Title (fr)

PROCEDE ET APPAREIL DE TEINTURE PAR TUYERES

Publication

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Application

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Abstract (en)

[origin: WO9118141A1] An improved jet dyeing apparatus is provided which enables the user to dye either lightweight or relatively heavy weight fabrics (1) in the same apparatus with improved efficiency and product quality. The apparatus includes a unique fabric plaiting mechanism (7) which is mounted to the exit end of a transport tube (11) for relative rotation about the transport tube (11) whereby a downwardly directed outlet nozzle (15) defined by the plaiting mechanism (7) reciprocates along a generally linear path of travel transverse to the transport tube (11) and such that the fabric (1) passing through the transport tube (11) will be deposited in a liquid treatment chamber (10) in overlying relatively straight folds in order to maximize capacity in the dyeing apparatus and to improve the stability of the fabric being treated therein. Furthermore, in accordance with an additional aspect of the invention, higher capacities may be achieved through use of a transport tube (11) which utilizes a plurality of liquor sprayer systems (3, 4) and which is preferably v-shaped in profile so that a first transport zone is provided which is preferably downwardly inclined at a mild angle and a second transport zone is defined which is generally upwardly inclined with the plaiting nozzle. The invention also includes the related method of dyeing a textile material.

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