

Title (en)

Method of controlling weft insertion in a jet loom

Title (de)

Verfahren zur Steuerung des Schusseintrages in einer Düsenwebmaschine

Title (fr)

Procédé pour contrÔler l'insertion de trame dans un métier à jet

Publication

EP 0554222 B1 19960619 (EN)

Application

EP 93810048 A 19930126

Priority

JP 1299492 A 19920128

Abstract (en)

[origin: EP0554222A1] To provide a method of controlling weft insertion in a jet loom which can ensure safe and complete weft insertion through a shed even under the influence of a change in weft flying speed, acceleration or deceleration, due to a change in air injection from the auxiliary nozzles and provide uniform hand in the resulting fabric. Method of controlling weft insertion is adapted for use in a jet loom having at least one weft detector (32-36) for detecting the leading end of an inserted weft (y) for each weft insertion at a position defined by said weft detector (32-36) on the way of weft flying along a weft insertion passage of the loom to determine a time at which said leading end arrives at said position and a plurality of auxiliary nozzles (2a-2e,3a-3e,4a-4e,5a-5e,6a-6e) whose operation may be controlled according to a signal from said weft detector (32-36). The method is characterized in that said time at which the leading end of said inserted weft (y) has actually arrived at said position is compared with a reference weft arrival time, and fluid injection from any auxiliary nozzles (2a-2e,3a-3e,4a-4e,5a-5e,6a-6e) located upstream and downstream of said position of the weft detector are compensated for as required according to information from the comparison. <IMAGE>

IPC 1-7

D03D 47/30

IPC 8 full level

D03D 47/30 (2006.01)

CPC (source: EP)

D03D 47/304 (2013.01); **D03D 47/3053** (2013.01); **D03D 47/3073** (2013.01)

Cited by

CN114606627A; EP1473391A1; EP3156529A1; CN107034576A; BE1024064B1; EP0685584A1; US5632308A; CN104603343A; DE19913398A1; US6148872A; DE19913398C2; EP1039000A3; EP3144422A3; CN107034575A; BE1016857A3; US7819142B2; US7063109B2; US9382648B2; WO2007057217A1; WO2013171045A3

Designated contracting state (EPC)

BE DE FR IT

DOCDB simple family (publication)

EP 0554222 A1 19930804; **EP 0554222 B1 19960619**; DE 69303184 D1 19960725; DE 69303184 T2 19970130; JP 3044897 B2 20000522; JP H05209342 A 19930820

DOCDB simple family (application)

EP 93810048 A 19930126; DE 69303184 T 19930126; JP 1299492 A 19920128