

Title (en)

Weft insertion control apparatus in a jet loom.

Title (de)

Kontrollvorrichtung für den Schussfadeneintrag in eine Düsenwebmaschine.

Title (fr)

Dispositif de contrôle de l'insertion de la trame dans un métier à jet.

Publication

EP 0498773 A1 19920812 (EN)

Application

EP 92810074 A 19920203

Priority

JP 1459491 A 19910205

Abstract (en)

To accomplish successful weft insertion controlling on the basis of information of weft insertion failure due to weft interception by a warp sheet and to reduce consumption of air under pressure used for weft insertion. If a weft fails to be inserted through a warp shed properly, insertion of a weft portion (Y2) succeeding the faulty weft (Y1, Y3 or Y4) is prevented by air flow injected by the blow nozzle (18). The succeeding weft portion (Y2) is introduced into the weft introducing duct (19) by the air flow from the blow nozzle (18) and the faulty weft (Y1, Y3 or Y4) is pulled out from the warp shed by the withdrawing action of the paired rollers (26, 27). Different extending conditions of the faulty weft (Y1), which has failed to reach the extreme end of weft insertion passage, and of the faulty wefts (Y3, Y4) in the region adjacent the inlet of the weft introducing duct (19) are distinguishably detected by the intercepted-weft detector (28). According to the information of detection by the detector (28), the computer control (C1) changes the setting of commencement times of energization of the solenoid (2) and of the solenoid for valve (V1), hence the weft insertion commencement time. <IMAGE>

IPC 1-7

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Citation (search report)

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