

Title (en)

METHOD OF CONTROLLING WEFT INSERTION OF AIR JET LOOM

Title (de)

VERFAHREN ZUR STEUERUNG DER SCHUSSFADENEINFÜHRUNG EINER LUFTDÜSENWEBMASCHINE

Title (fr)

PROCÉDÉ DE COMMANDE D'INSERTION DE TRAME D'UN MÉTIER À TISSER À JET D'AIR

Publication

**EP 3567145 B1 20210224 (EN)**

Application

**EP 19171713 A 20190430**

Priority

JP 2018090159 A 20180508

Abstract (en)

[origin: EP3567145A1] A method of controlling weft insertion of an air jet loom that includes a holding pin (17) configured to hold and release a weft yarn (11), and a weft insertion nozzle (6, 7, 8) that injects air is provided. The method includes the steps of: detecting a characteristic of the weft yarn (11) that is yet to be inserted; predicting a weft yarn arrival timing at which the weft yarn (11) inserted in accordance with a specified weft insertion condition arrives at a specified position in a weft insertion direction, on the basis of the detected characteristic of the weft yarn (11); determining a difference between the predicted weft yarn arrival timing (TWp) and a target weft yarn arrival timing (TWr); modifying a lifting timing of the holding pin (17) in accordance with the determined difference; and lifting the holding pin (17) at the modified lifting timing to insert the weft yarn (11).

IPC 8 full level

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CPC (source: CN EP)

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