

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 3567143 B1 20210224 (EN)

Application

EP 19171714 A 20190430

Priority

JP 2018090158 A 20180508

Abstract (en)

[origin: EP3567143A1] A method of controlling weft insertion of an air jet loom includes the steps of: detecting a characteristic of a weft yarn (11) that is yet to be inserted; predicting a weft yarn arrival timing (TWp) at which the weft yarn (11) that is inserted in accordance with a specified weft insertion condition arrives at a specified position, on the basis of the detected characteristic of the weft yarn (11); when the predicted weft yarn arrival timing (TWp) is earlier than an earlier limit (TWf) that is predetermined relative to variations in the weft yarn arrival timing, modifying the weft insertion condition so that an actual weft yarn arrival timing is later than the earlier limit (TWf); and performing a weft insertion of the weft yarn (11) by the weft insertion nozzle (6, 7, 8) on the basis of the modified weft insertion condition.

IPC 8 full level

D03D 47/30 (2006.01)

CPC (source: CN EP)

D03D 47/3033 (2013.01 - CN EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3567143 A1 20191113; EP 3567143 B1 20210224; CN 110453345 A 20191115; CN 110453345 B 20210604; JP 2019196556 A 20191114; JP 7359529 B2 20231011

DOCDB simple family (application)

EP 19171714 A 20190430; CN 201910370551 A 20190506; JP 2018090158 A 20180508