

Title (en)

Apparatus for setting weft insertion condition in an air jet loom

Title (de)

Vorrichtung zur Schussfadeneintragsbedingung in einer Luftdüsenwebmaschine

Title (fr)

Appareil de réglage de condition d'insertion de trame dans un métier à tisser à jet d'air

Publication

**EP 2733242 A2 20140521 (EN)**

Application

**EP 13190008 A 20131024**

Priority

JP 2012252918 A 20121119

Abstract (en)

An apparatus for setting weft insertion condition in an air jet loom includes a weft insertion device causing a weft yarn to move by compressed air injected from a main nozzle and plural sub-nozzles arranged in the direction of weft insertion, and a controller storing fabric conditions and weaving conditions. The controller stores a database in which data of optimum sub-nozzle pressure is linked to data of loom speed for different types of reed dent. The data of optimum sub-nozzle pressure is obtained based on the variation of angular difference between the time of weft insertion completion and the time of weft release completion in the fabric conditions and the weaving conditions. The controller selects the optimum sub-nozzle pressure from the database based on the fabric conditions, the type of reed dent and the loom speed.

IPC 8 full level

**D03D 47/30** (2006.01)

CPC (source: EP)

**D03D 47/3033** (2013.01); **D03D 47/304** (2013.01)

Citation (applicant)

JP H04241135 A 19920828 - TOYODA AUTOMATIC LOOM WORKS

Cited by

CN105133151A

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2733242 A2 20140521**; CN 103820923 A 20140528; CN 103820923 B 20150902; JP 2014101594 A 20140605

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