

Title (en)

Weft brake device and method for controlling a weft brake device

Title (de)

Schussfadenbremsvorrichtung und Verfahren zur Steuerung einer Schussfadenbremsvorrichtung

Title (fr)

Dispositif de frein de fil de trame et procédé de commande d'un dispositif de frein de fil de trame

Publication

EP 1630272 A3 20080820 (EN)

Application

EP 05017592 A 20050812

Priority

JP 2004250050 A 20040830

Abstract (en)

[origin: EP1630272A2] A fluid jet loom (1) performs a weft insertion process in which a retaining pin (8) retracts to release a weft yarn (4) stored in a weft measuring-and-storing device (5), a weft brake device (40) applies a braking force to the weft yarn (4) at a brake start timing (t3, 3) while the released weft yarn (4) is being inserted into a shed (17) by a jet from a main nozzle (10), and the retaining pin (8) projects to stop the weft yarn (4) and thereby finishes the weft insertion process. A remaining weft-insertion length (L1) to a final weft arrival position is input beforehand to the weft brake device (40) as an input value, and the weft brake device (40) determines the brake start timing (t3, 3) on the basis of the remaining weft-insertion length (L1) and applies the braking force to the weft yarn (4) at the determined brake start timing (t3, 3).

IPC 8 full level

D03D 47/34 (2006.01)

CPC (source: EP KR)

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Citation (search report)

- [X] DE 4008864 A1 19910926 - DORNIER GMBH LINDAUER [DE]
- [X] WO 9204490 A1 19920319 - IRO AB [SE]
- [DX] JP H0598539 A 19930420 - TOYODA AUTOMATIC LOOM WORKS

Cited by

CN109457371A; CN112376147A; CN107034577A; CN102383245A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1630272 A2 20060301; **EP 1630272 A3 20080820**; **EP 1630272 B1 20101110**; DE 602005024648 D1 20101223; JP 2006063498 A 20060309; KR 20060049244 A 20060518

DOCDB simple family (application)

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