

Title (en)

Method for braking the weft yarn in a fluid jet loom

Title (de)

Verfahren zum Abbremsen eines Schussfadens einer Düsenwebmaschine

Title (fr)

Méthode de freinage de la trame d'un métier à tisser à jet de fluide

Publication

EP 1659201 A1 20060524 (DE)

Application

EP 05405599 A 20051024

Priority

- EP 04405724 A 20041122
- EP 05405599 A 20051024

Abstract (en)

The tension of the weft yarn on a jet loom is controlled by deflecting it with a movable tensioning element. The position (S) of the tensioning element is controlled according to a time profile (23) to give the required tension profile. This consists of an initial phase (11), in which the element moves with increasing velocity (V) from rest (111) to maximum (113) and then reduces (121) to a constant phase (13). An independent claim is also included for a jet loom, especially an air jet loom, that includes a weft tensioning element with a position profile (23) that can be adjusted to the tension profile. The profile (23) can include constant, linear, hyperbolic and trigonometric functions and is asymmetric. The element is driven through a controller by an electric motor, by an electro-magnet or mechanically.

IPC 8 full level

D03D 47/34 (2006.01)

CPC (source: EP)

B65H 59/34 (2013.01); **D03D 47/34** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [X] WO 0210493 A1 20020207 - IROPA AG [CH], et al
- [A] WO 03038171 A1 20030508 - IROPA AG [CH], et al
- [A] EP 1405941 A1 20040407 - LGL ELECTRONICS SPA [IT]
- [A] WO 0044970 A1 20000803 - TE STRAKE BV [NL], et al
- [A] WO 9805812 A1 19980212 - ROJ ELECTROTTEX NUOVA SRL [IT], et al

Designated contracting state (EPC)

BE DE IT

DOCDB simple family (publication)

EP 1659201 A1 20060524; EP 1659201 B1 20090708

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