

Title (en)

A control method and system for weft-braking devices for automatically adjusting the mechanical tension of the yarn in weaving machines

Title (de)

Verfahren und Vorrichtung zur Steuerung von Schussfadenbremsvorrichtungen zum automatischen Einstellen der Fadenspannung in Webmaschinen

Title (fr)

Méthode et dispositif de contrôle pour dispositifs de freinage de trame pour régler automatiquement la tension du fil dans les métiers à tisser

Publication

EP 1314806 A3 20031112 (EN)

Application

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Priority

IT TO20010737 A 20010725

Abstract (en)

[origin: EP1314806A2] An improved method for controlling electrically operated weft-braking devices, capable of automatically adjusting the mechanical tension of the weft yarn (F) in mechanical-picking weaving machines (TE), is disclosed herein. The excitation current (Ie) of the weft-braking device (LF) is controlled by an adjustment loop (A) using a signal (tens-mis), which is a measure of the actual tension of the yarn, as a feedback signal for the adjustment loop (A). The improvement comprises employing an average value (TMx), which is computed at predetermined intervals (x) of weft picking and for a predetermined number (i) of picking strokes, in order to measure the direct tension of the thread (F), so that said average value (TMx) is substantially stable and not affected by fluctuations due to variations of the parameters of the weaving process. <IMAGE>

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D03D 47/34

IPC 8 full level

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CPC (source: EP)

D03D 47/34 (2013.01)

Citation (search report)

- [X] US 5669421 A 19970923 - LEHNERT FRANK [CH], et al
- [X] EP 0619261 A1 19941012 - INT TRADING SRL [IT]
- [A] US 5476122 A 19951219 - SCHUSTER RAINER [DE], et al
- [A] EP 1106721 A1 20010613 - LGL ELECTRONICS SPA [IT]

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