

Title (en)

Method and device for weft yarn monitoring in weaving processes and the like

Title (de)

Verfahren und Vorrichtung zur Überwachung von Schussfaden in Webverfahren oder dergleichen

Title (fr)

Procédé et dispositif pour surveiller la trame dans les procédés de tissage et similaires

Publication

EP 1036869 A1 20000920 (EN)

Application

EP 00104465 A 20000308

Priority

IT TO990204 A 19990316

Abstract (en)

A method for monitoring weft yarn in weaving processes in which the weft yarn is fed to the loom (T) by means of a feeder (11) with a windmilling arm for depositing a weft reserve. The method comprises the steps of: generating a signal indicating the presence of the yarn at the input of the feeder (11); amplifying and rectifying the signal; and comparing the signal with a parametric reference voltage (VR) in order to obtain a signal for halting the loom in the absence of the yarn presence signal. In order to prevent an excessively weak presence signal from failing to halt the loom (T) when the yarn breaks, the method is improved by adding the additional steps of correspondingly varying the amplification gain of the presence signal and/or the parametric reference voltage (VR) as one or more factors of the weaving process (yarn count and type, travel speed, mechanical tension) vary correspondingly. <IMAGE>

IPC 1-7

D03D 51/34

IPC 8 full level

D03D 51/34 (2006.01)

CPC (source: EP)

D03D 51/34 (2013.01)

Citation (search report)

- [AD] EP 0325793 A1 19890802 - ROY ELECTROTEX SPA [IT]
- [A] EP 0570875 A2 19931124 - PICANOL NV [BE]

Cited by

EP2075209A1; EP1445365A3

Designated contracting state (EPC)

DE

DOCDB simple family (publication)

EP 1036869 A1 20000920; EP 1036869 B1 20040225; DE 60008443 D1 20040401; DE 60008443 T2 20050113; IT 1308812 B1 20020111; IT TO990204 A1 20000916

DOCDB simple family (application)

EP 00104465 A 20000308; DE 60008443 T 20000308; IT TO990204 A 19990316