

Title (en)

Weft tensioning and detecting device for jet looms, particularly with pneumatic weft insertion

Title (de)

Schussfadenstreck- und -detektierereinrichtung für Düsenwebmaschinen, insbesondere mit pneumatischem Schusseintrag

Title (fr)

Dispositif de tension et de détection de la trame pour métiers à tisser à tuyères, en particulier avec insertion pneumatique de la trame

Publication

EP 0931865 B1 20021002 (DE)

Application

EP 98124097 A 19981218

Priority

DE 19802254 A 19980122

Abstract (en)

[origin: EP0931865A1] The weft yarn tensioner and detection system has a common detection unit (13) for both weft yarn channels (8,12). The detection unit (13) uses opto-electrical systems which are at the carrier (13a) at the outlet side of the base body (6). The carrier (13a) has a detection channel (17,18) in two planes (15,16), which are identical to the planes (7,11) of the yarn channels (8,12). The weft yarn channels (8,12) and the detection channels (17,18) have the same shape and size in cross section. The detection unit (13) has a beam transmitter (13b) and receiver (13c), and at least one beam transfer (13d) between them at an intermediate section (13e) of the carrier (13a). The beam transmitter (13b) or receiver (13c) is peripherally at a selected detection channel (17,18) so that a beam flow between them can be interrupted. A single beam transmitter (13b) is at the intermediate carrier section (13e), with a beam flow to the receiver (13c) peripherally at each detection channel (17,18). Or the intermediate carrier section (13e) has a single beam receiver (13c), with a beam flow between it and the transmitter (13b) peripherally at each detection channel (17,18). The intermediate carrier section (13e) has a vertical channel for the beam flow.

IPC 1-7

D03D 47/30; **D03D 51/34**

IPC 8 full level

D03D 47/30 (2006.01); **D03D 51/34** (2006.01)

CPC (source: EP US)

D03D 47/3073 (2013.01 - EP US); **D03D 47/308** (2013.01 - EP US); **D03D 51/34** (2013.01 - EP US)

Cited by

CN103924364A; DE202017100553U1

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI PT

DOCDB simple family (publication)

EP 0931865 A1 19990728; **EP 0931865 B1 20021002**; AT E225420 T1 20021015; DE 19802254 C1 19990805; DE 59805785 D1 20021107; ES 2185106 T3 20030416; JP 2000265342 A 20000926; JP 2992032 B1 19991220; PT 931865 E 20030131; US 6082413 A 20000704

DOCDB simple family (application)

EP 98124097 A 19981218; AT 98124097 T 19981218; DE 19802254 A 19980122; DE 59805785 T 19981218; ES 98124097 T 19981218; JP 1444499 A 19990122; PT 98124097 T 19981218; US 23248699 A 19990115