

Title (en)

WEFT THREAD MONITORING SYSTEM IN A CIRCULAR LOOM

Title (de)

EINRICHTUNG ZUR ÜBERWACHUNG DER SCHUSSFÄDEN AN EINER RUNDWEBMASCHINE

Title (fr)

SYSTEME DE CONTROLE DES FILS DE TRAME DANS UN METIER A TISSER CIRCULAIRE

Publication

EP 0786026 B2 20050727 (DE)

Application

EP 95930329 A 19950919

Priority

- AT 9500183 W 19950919
- CH 315094 A 19941020

Abstract (en)

[origin: WO9612839A1] In a system for monitoring the weft threads (32) in a circular loom where said weft threads are wound off the spool (31) of the shuttle (30) running in the shed along a circular track formed by the reed (3) and taken off to the edge (13) of the tubular fabric produced, scanning means monitor the weft thread and generate an electric regulating signal on detecting a fault therein. Here, the electric regulating signal (23) can be generated by a magnetic sensor (22) in the region of the track of the shuttle (30) co-operating with a permanent magnet (24) carried on the shuttle (30). The permanent magnet is arranged on a pivoted lever (26) deflected by the weft thread (32) drawn off against the action of spring-like return means (25) and held outside the effective connection with the magnetic sensor in order to take up its end position producing an effective connection between the permanent magnet and the magnetic sensor to generate an active regulating signal (23) in the event of a fault in the weft thread.

IPC 1-7

D03D 51/34; **D03D 37/00**

IPC 8 full level

D03D 37/00 (2006.01); **D03D 51/34** (2006.01)

CPC (source: EP KR US)

D03D 51/34 (2013.01 - EP KR US); **Y10S 242/912** (2013.01 - EP US)

Citation (opposition)

Opponent :

- DE 1535899 B1 19700827 - RUETTIGERS JAKOB
- EP 0329618 A1 19890823 - INCAS S P A [IT]

Cited by

RU2485228C2; EP1967623A2; DE212017000105U1; WO2019025043A1; EP3121319A1; WO2010084074A1; DE212017000090U1; EP3438336A1; WO2023081953A1; EP2570530A1; WO2013037631A1; EP3438335A1; WO2015010889A1; US9657416B2; EP3988694A1; WO2022084044A1

Designated contracting state (EPC)

DE ES FR GB IT PT

DOCDB simple family (publication)

WO 9612839 A1 19960502; AT 401065 B 19960625; AT A209194 A 19951015; AU 3375895 A 19960515; BR 9509419 A 19970930; CN 1042846 C 19990407; CN 1161720 A 19971008; CZ 118697 A3 19971015; CZ 285998 B6 19991215; DE 59503288 D1 19980924; EP 0786026 A1 19970730; EP 0786026 B1 19980819; EP 0786026 B2 20050727; ES 2120225 T3 19981016; ES 2120225 T5 20051201; HU 223928 B1 20050329; HU T76885 A 19971229; JP H10501036 A 19980127; KR 100388371 B1 20030926; KR 970707336 A 19971201; PL 178320 B1 20000428; PL 319724 A1 19970818; RO 115891 B1 20000728; TR 199501249 A2 19960621; TW 282497 B 19960801; US 5826626 A 19981027

DOCDB simple family (application)

AT 9500183 W 19950919; AT 209194 A 19941111; AU 3375895 A 19950919; BR 9509419 A 19950919; CN 95195760 A 19950919; CZ 118697 A 19950919; DE 59503288 T 19950919; EP 95930329 A 19950919; ES 95930329 T 19950919; HU 9701434 A 19950919; JP 51352495 A 19950919; KR 19970702505 A 19970417; PL 31972495 A 19950919; RO 9700685 A 19950919; TR 9501249 A 19951012; TW 84110471 A 19951005; US 79380897 A 19970305