

Title (en)

OPTOELECTRONIC SENSOR AND WEFT YARN MEASUREMENT AND FEEDING EQUIPMENT

Title (de)

OPTOELEKTRONISCHE SENSORVORRICHTUNG UND SCHUSSFADEN-MESSSPEICHERGERÄT

Title (fr)

DETECTEUR OPTOELECTRONIQUE ET DISPOSITIF DE MESURE ET D'AMENEE DE FIL DE TRAME

Publication

**EP 0837829 A2 19980429 (DE)**

Application

**EP 96923976 A 19960705**

Priority

- DE 19525260 A 19950711
- EP 9602975 W 19960705

Abstract (en)

[origin: DE19525260A1] An optoelectronic sensor (S) for detecting a weft yarn passing through a scanning zone (3) has at least one light source (L, L'), at least one photoelectric receiver (R1, R2) that is sensitive to variations in light intensity and is connected to an evaluation circuit (C), and a slitted diaphragm (A1, A2) arranged between the yarn and the receiver. In a weft yarn measurement and feeding equipment (F), the sensor (S) detects overend unwinding of the thread from the feeding body (B). At least two receivers (R1, R2) arranged next to each other are oriented towards the scanning zone and their receiving surfaces (4, 5) are covered by a slitted diaphragm (A1, A2), with the exception of a limited area. The slitted diaphragms (A1, A2) are arranged at an acute angle of maximum 90 DEG in relation to each other.

IPC 1-7

**B65H 63/08**; **D03D 47/36**

IPC 8 full level

**B65H 51/22** (2006.01); **B65H 63/00** (2006.01); **B65H 63/08** (2006.01); **D03D 47/34** (2006.01); **D03D 47/36** (2006.01); **G01V 8/20** (2006.01); **H01H 35/00** (2006.01)

CPC (source: EP KR US)

**B65H 63/08** (2013.01 - KR); **D03D 47/367** (2013.01 - EP US)

Designated contracting state (EPC)

BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

**DE 19525260 A1 19970116**; CN 1084285 C 20020508; CN 1190379 A 19980812; DE 59603233 D1 19991104; EP 0837829 A2 19980429; EP 0837829 B1 19990929; JP 2915147 B2 19990705; JP H10511069 A 19981027; KR 100293027 B1 20011115; KR 19990028680 A 19990415; US 5966211 A 19991012; WO 9703012 A1 19970130

DOCDB simple family (application)

**DE 19525260 A 19950711**; CN 96195402 A 19960705; DE 59603233 T 19960705; EP 9602975 W 19960705; EP 96923976 A 19960705; JP 50549196 A 19960705; KR 19970710003 A 19971231; US 98331198 A 19980413