

Title (en)

DEVICE FOR DETECTING THE CHARACTERISTICS OF A MOVING PAPER WEB USING AN IR-LIGHT SOURCE

Title (de)

VORRICHTUNG ZUM ERFASSEN VON EIGENSCHAFTEN EINER BEWEGTEN PAPIERBAHN MIT EINER IR-LICHTQUELLE

Title (fr)

DISPOSITIF DE DETECTION DES CARACTERISTIQUES D'UNE BANDE PAPIER DEFILANTE A L'AIDE D'UNE SOURCE DE LUMIERE INFRAROUGE

Publication

**EP 1240500 A2 20020918 (DE)**

Application

**EP 00987140 A 20001116**

Priority

- DE 0004034 W 20001116
- DE 19959763 A 19991211

Abstract (en)

[origin: WO0142765A2] The invention relates to a device for detecting the characteristics of a moving paper web (20), in particular for controlling production during the manufacture of paper, comprising an IR-illuminating device (22) which is suitable for illuminating the paper web (20) with IR-light and a detector (28) containing a light receptor for the light which is reflected or transmitted from the paper web (20). The invention is characterised in that the IR-illuminating device (22) has a long, rod-shaped IR-light emitter (26) which forms the light source, that said light source is located in a housing (38), that the housing (38) has a front plate (40) which faces the paper web (20) and that an exit window (48) is sealed into the front plate (40), through which the light from the light source falls onto the paper web (20).

IPC 1-7

**G01N 21/00**

IPC 8 full level

**G01N 21/89** (2006.01)

CPC (source: EP US)

**G01N 21/86** (2013.01 - EP US); **G01N 21/8901** (2013.01 - EP US)

Citation (search report)

See references of WO 0142765A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 0142765 A2 20010614**; **WO 0142765 A3 20020328**; DE 10056783 A1 20010613; EP 1240500 A2 20020918; US 2002179840 A1 20021205; US 6696685 B2 20040224

DOCDB simple family (application)

**DE 0004034 W 20001116**; DE 10056783 A 20001116; EP 00987140 A 20001116; US 16711402 A 20020611