

Title (en)

MEASURING DEVICE AND MEASURING METHOD FOR VERIFYING THE CUT QUALITY OF A SHEET

Title (de)

MESSGERÄT UND -VERFAHREN ZUM PRÜFEN DER SCHNITTQUALITÄT EINES BLATTES

Title (fr)

APPAREIL ET PROCEDE DE MESURE POUR LE CONTROLE DE LA QUALITE DE COUPE D'UNE FEUILLE

Publication

EP 1673588 A1 20060628 (DE)

Application

EP 04765462 A 20040922

Priority

- EP 2004010587 W 20040922
- DE 10346467 A 20031002

Abstract (en)

[origin: WO2005033627A1] The invention relates to a measuring device for verifying the cut quality of a sheet, in addition to a measuring method for verifying the cut quality of a sheet, which permit the quality of the cut to be reliably verified. To achieve this, the measuring device is equipped with a transparent scanning support (3) for receiving a sheet (4) and a stop (1) for the latter, a scanning unit (15) comprising a scanning window (14) and a cover (21) for covering the sheet (4) that is held by the scanning support (3). The scanning window (14) covers the sheet (4), extending beyond the latter to form border areas (10, 11, 12, 13). The cover (21) has different reflection characteristics in relation to the sheet (4) in order to generate a high-contrast scanned image of the sheet (4) and the border areas (10, 11, 12, 13) between the sheet (4) and the scanning window (14). According to said method, the sheet (4) is positioned on a transparent scanning support (3) with the aid of a stop (1), is covered by the cover (21) and scanned with a scanning unit (15), the latter (15) scanning in the vicinity of a scanning window (14), which covers both the sheet (4) and the border areas (10, 11, 12, 13) that surround the sheet (4). Differences in contrast between the sheet (4) and the border areas (10, 11, 12, 13) are then recorded.

IPC 1-7

G01B 11/24; **G01N 21/86**; **G03G 15/00**; **G03B 27/62**

IPC 8 full level

G01B 11/24 (2006.01); **G03G 15/00** (2006.01)

CPC (source: EP US)

G01B 11/24 (2013.01 - EP US); **G03G 15/5025** (2013.01 - EP US); **G03G 15/60** (2013.01 - EP US)

Citation (search report)

See references of WO 2005033627A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005033627 A1 20050414; **WO 2005033627 A9 20060309**; CA 2540801 A1 20050414; CN 1860346 A 20061108; DE 10346467 A1 20050519; EP 1673588 A1 20060628; RU 2006114752 A 20060910; US 2007120079 A1 20070531; US 7473920 B2 20090106

DOCDB simple family (application)

EP 2004010587 W 20040922; CA 2540801 A 20040922; CN 200480028592 A 20040922; DE 10346467 A 20031002; EP 04765462 A 20040922; RU 2006114752 A 20040922; US 57449504 A 20040922