

Title (en)

SCANNER WITH WAVEGUIDE FOR SCANNING PAPER CURRENCY

Title (de)

SCANNER MIT WELLENLEITER ZUM SCANNEN VON PAPIERGELD

Title (fr)

DISPOSITIF DE BALAYAGE EQUIPE D'UN GUIDE D'ONDE DESTINE A BALAYER DU PAPIER-MONNAIE

Publication

EP 1317729 A4 20041215 (EN)

Application

EP 01964597 A 20010814

Priority

- US 0141704 W 20010814
- US 64121600 A 20000818

Abstract (en)

[origin: WO0217217A1] A light-scanner (200) that includes a wave guide (230). The scanner (200) defines a scanning zone, and further includes a light-emitting diode (214), and a detector. The wave guide (230) is disposed between the light-emitting diode (214) and the scanning zone. The wave guide (230) defines a light-admitting aperture and a light-reflective surface. The light-admitting aperture and light-reflecting surface cooperate to direct light from the light-emitting diode toward the scanning zone, and to focus such light centrally along a path traveled by such light toward the detector.

IPC 1-7

G06K 7/10; G06K 13/06; G06K 15/12; G07D 7/12

IPC 8 full level

G07D 7/12 (2006.01); **G06K 7/10** (2006.01); **G06T 1/00** (2006.01)

CPC (source: EP KR)

G06K 7/10 (2013.01 - KR); **G06K 7/10564** (2013.01 - EP); **G06K 7/10702** (2013.01 - EP); **B82Y 99/00** (2013.01 - KR)

Citation (search report)

- [X] US 4758062 A 19880719 - SUNAGAWA HIROSHI [JP], et al
- [E] EP 1164553 A2 20011219 - GLORY KOGYO KK [JP]
- See references of WO 0217217A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 0217217 A1 20020228; AU 8543501 A 20020304; CA 2419287 A1 20020228; CA 2419287 C 20081209; CN 100390809 C 20080528; CN 1447952 A 20031008; EP 1317729 A1 20030611; EP 1317729 A4 20041215; JP 2004506992 A 20040304; JP 4782357 B2 20110928; KR 100875001 B1 20081219; KR 20030066600 A 20030809; TW 538384 B 20030621

DOCDB simple family (application)

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