

Title (en)
OPTICAL SENSOR WITH PLANAR WALL

Title (de)
OPTISCHER SENSOR MIT EBENER WAND

Title (fr)
CAPTEUR OPTIQUE AVEC UNE PAROI PLANE

Publication
EP 1153371 B1 20020911 (EN)

Application
EP 99904648 A 19990217

Priority
CA 9900116 W 19990217

Abstract (en)
[origin: WO0049582A1] An improved optical sensor for a banknote validator uses an aspherical lens having a planar wall as a combination radiation plug for a port in the pathway and a focusing arrangement. Emitters and receivers are closely positioned on a common support and generally located at the focal point of the lens. The radiation reflected by a banknote is focused and received by the receiver. The lens also serves to collimate the produced radiation of the emitters for scanning of the banknote.

IPC 1-7
G07D 7/00

IPC 8 full level
G07D 7/12 (2006.01); **G07D 7/121** (2016.01)

CPC (source: EP US)
G07D 7/121 (2013.01 - EP US)

Designated contracting state (EPC)
DE ES GB

DOCDB simple family (publication)
WO 0049582 A1 20000824; AU 2506199 A 20000904; AU 772395 B2 20040429; CA 2358709 A1 20000824; CA 2358709 C 20050802; DE 69902948 D1 20021017; DE 69902948 T2 20030522; EP 1153371 A1 20011114; EP 1153371 B1 20020911; ES 2183511 T3 20030316; JP 2002537616 A 20021105

DOCDB simple family (application)
CA 9900116 W 19990217; AU 2506199 A 19990217; CA 2358709 A 19990217; DE 69902948 T 19990217; EP 99904648 A 19990217; ES 99904648 T 19990217; JP 2000600246 A 19990217