

Title (en)

METHOD AND DEVICE FOR THE CONTACTLESS DETECTION OF FLAT OBJECTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BERÜHRUNGSLOSEN DETEKTION VON FLÄCHIGEN OBJEKTEN

Title (fr)

PROCEDE ET DISPOSITIF POUR DETECTER SANS CONTACT DES OBJETS PLATS

Publication

EP 1701901 B1 20140507 (DE)

Application

EP 04804233 A 20041222

Priority

- EP 2004014639 W 20041222
- DE 102004001314 A 20040107
- DE 102004056742 A 20041124

Abstract (en)

[origin: WO2005066050A1] The invention relates to a method and a device for the contactless detection of flat objects, especially in the form of sheets, such as paper, films, sheet metal, labels, splices, stub cards, tear strips, and similar flat materials or packagings. Said method and devices require, e.g. in the printing industry, a reliable and precise identification of single sheets, missing sheets or multiple sheets, special double sheets, flat objects and labels. To this end, the invention provides a very flexible solution that can be applied to a very large spread or mass per unit area range, whereby the evaluation device arranged downstream from the sensor device, especially the receiver, receives at least one correction characteristic curve, by which means the characteristic curve of the input voltage of the measuring signal in the receiver is reproduced as a target characteristic curve according to the spread or the mass per unit area of the flat objects, in such a way that a linear or approximately linear dependence or a characteristic curve close to the ideal characteristic curve for identifying the single sheet is achieved as a target characteristic curve.

IPC 8 full level

B65H 7/04 (2006.01); **B65H 7/12** (2006.01); **G01N 29/11** (2006.01); **G01N 33/34** (2006.01)

CPC (source: EP)

B65H 7/125 (2013.01); **B65H 2515/10** (2013.01); **B65H 2557/24** (2013.01); **B65H 2557/242** (2013.01); **B65H 2557/31** (2013.01); **B65H 2557/32** (2013.01); **B65H 2701/192** (2013.01)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2005066050 A1 20050721; EP 1701901 A1 20060920; EP 1701901 B1 20140507

DOCDB simple family (application)

EP 2004014639 W 20041222; EP 04804233 A 20041222