

Title (en)

Method and apparatus for currency discrimination and counting

Title (de)

Verfahren und Vorrichtung zum erkennen und zählen von verschiedenen währungen

Title (fr)

Méthode et appareillage permettant d'identifier et de compter des billets dans diverses monnaies

Publication

**EP 0883094 A2 19981209 (EN)**

Application

**EP 98115458 A 19910114**

Priority

- EP 95116745 A 19910114
- US 47511190 A 19900205

Abstract (en)

An improved method and apparatus for discriminating between currency bills of different denominations uses an optical sensing and correlation technique based on the sensing of bill reflectance characteristics obtained by illuminating and scanning a bill. A series of detected reflectance signals are obtained by sampling and processing the reflected light as the currency bill is moved across a light strip. The sample data is subjected to processing, whereby the reflectance data represents a characteristic pattern that is unique for a given bill denomination and incorporates sufficient distinguishing features between characteristic patterns for discriminating between different currency denominations. A plurality of master characteristic patterns are generated and stored using original bills for each denomination of currency to be detected. The characteristic pattern for a scanned currency bill is compared to each of said stored master patterns to determine the degree of correlation therebetween, and thereby to identify the denomination of said currency bill. <IMAGE>

IPC 1-7

**G07D 7/00**

IPC 8 full level

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CPC (source: EP)

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**WO 9111778 A1 19910808**; AU 5948394 A 19940630; AU 6428296 A 19961121; AU 645523 B2 19940120; AU 669781 B2 19960620; AU 688688 B2 19980312; AU 7180691 A 19910821; CA 2050589 A1 19910806; CA 2050589 C 19951226; CA 2109791 A1 19910806; CA 2109791 C 19950718; CA 2156998 A1 19910806; CA 2156998 C 19990216; CA 2156999 C 19961217; DE 69125660 D1 19970522; DE 69125660 T2 19970731; DE 69131078 D1 19990506; DE 69131078 T2 19990715; EP 0466869 A1 19920122; EP 0466869 A4 19940202; EP 0466869 B1 19970416; EP 0706156 A2 19960410; EP 0706156 A3 19971022; EP 0706156 B1 19990331; EP 0883094 A2 19981209; EP 0883094 A3 19990630; JP 2994461 B2 19991227; JP 2995156 B2 19991227; JP H05504220 A 19930701; JP H1131251 A 19990202; JP H1153603 A 19990226

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