

Title (en)  
Method and apparatus for currency discrimination and counting

Title (de)  
Verfahren und Vorrichtung zum Diskriminieren und Zählen von Währung

Title (fr)  
Méthode et appareil destiné à la discrimination et au comptage de valeurs

Publication  
**EP 0706156 A3 19971022 (EN)**

Application  
**EP 95116745 A 19910114**

Priority

- EP 91903057 A 19910114
- US 47511190 A 19900205

Abstract (en)  
[origin: WO9111778A1] An improved method and apparatus for discriminating between currency bills (17) of different denominations uses an optical sensing (18) and correlation technique based on the sensing of bill reflectance characteristics obtained by illuminating (22) and scanning a bill along its narrow dimension. A series of detected reflectance signals are obtained by sampling and digitally processing (30), under microprocessor control, the reflected light at a plurality of predefined sample points as a currency bill is moved across an illuminated strip (24) with its narrow dimension parallel to the direction of transport of the bill. The sample data is subjected to digital processing, including a normalizing process, 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.

IPC 1-7  
**G07D 1/00; G07D 9/00**

IPC 8 full level  
**G06K 9/00** (2006.01); **G06M 3/10** (2006.01); **G06T 1/00** (2006.01); **G06T 7/00** (2006.01); **G07D 3/00** (2006.01); **G07D 7/00** (2006.01); **G07D 7/04** (2006.01); **G07D 7/06** (2006.01); **G07D 7/12** (2006.01); **G07D 7/16** (2006.01); **G07D 7/20** (2006.01); **G07D 11/00** (2006.01); **G07F 19/00** (2006.01)

CPC (source: EP)  
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Citation (search report)

- [XYA] EP 0264125 A1 19880420 - TOSHIBA KK [JP]
- [Y] EP 0253935 A2 19880127 - LIGHT SIGNATURES INC [US]

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**US 9100283 W 19910114**; AU 5948394 A 19940414; AU 6428296 A 19960827; AU 7180691 A 19910114; CA 2050589 A 19910114; CA 2109791 A 19910114; CA 2156998 A 19910114; CA 2156999 A 19910114; DE 69125660 T 19910114; DE 69131078 T 19910114; EP 91903057 A 19910114; EP 95116745 A 19910114; EP 98115458 A 19910114; JP 50340591 A 19910114; JP 6482096 A 19960321; JP 6483196 A 19960321