

Title (en)

Apparatus for classifying banknotes

Title (de)

Vorrichtung zur Klassifizierung von Banknoten

Title (fr)

Dispositif de classification de billets de banque

Publication

EP 1429297 A1 20040616 (EN)

Application

EP 03257806 A 20031211

Priority

- EP 03257806 A 20031211
- EP 02258599 A 20021213

Abstract (en)

Banknotes (2) are classified by determining their spectral characteristics in respective areas using diffusely-reflected light from the banknote and/or light transmitted through the banknote. In addition, the surface condition of the banknote (2) is detected by using specularly-reflected light. Preferably, the same transmitter (4) is used to generate the light which is diffusely-reflected and specularly-reflected. <IMAGE>

IPC 1-7

G07D 7/12; **G07D 7/06**

IPC 8 full level

G07D 7/12 (2006.01)

CPC (source: EP US)

G07D 7/1205 (2017.04 - EP); **G07D 7/121** (2013.01 - EP US)

Citation (search report)

- [XA] US 5280333 A 19940118 - WUNDERER BERND [DE]
- [XY] US 6449041 B1 20020910 - JUNG WAYNE D [US], et al
- [YA] US 6101266 A 20000808 - LASKOWSKI EDWARD L [US], et al
- [A] WO 0154077 A1 20010726 - FLEX PRODUCTS INC [US]
- [A] WO 0154076 A1 20010726 - RUE DE INT LTD [GB], et al
- [A] US 4723072 A 19880202 - NARUSE KAZUAKI [JP]
- [A] DE 19840482 A1 20000309 - GIESECKE & DEVRIENT GMBH [DE]

Cited by

DE102009048002A1; GB2437310A; EP2359346A4; EP2541467A3; US8780206B2; US9087424B2; US10288423B2; WO2015085347A1

Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

EP 1429297 A1 20040616

DOCDB simple family (application)

EP 03257806 A 20031211