

Title (en)

METHOD AND DEVICE FOR CHECKING COIN FOR FORGERY

Title (de)

MÜNZPRÜFER

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT DE DETECTER UNE FAUSSE PIECE DE MONNAIE

Publication

EP 0978807 A4 20020306 (EN)

Application

EP 99905308 A 19990225

Priority

- JP 9900881 W 19990225
- JP 6037798 A 19980226

Abstract (en)

[origin: EP0978807A1] A method of and apparatus for determining authenticity of coins based on difference in surface irregularity pattern of coins. A coin passage is inclined at a predetermined angle, and an exciting coil is arranged near one side wall of the coin passage such that the two magnetic poles of the exciting coil face the coin passage. Two receiving coils having substantially identical characteristics are arranged near the same passage wall such that they are electromagnetically coupled with the exciting coil. The exciting coil is excited at a predetermined frequency, and an influence of a demagnetizing field caused by eddy current induced on the surface of a coin is detected by the receiving coils. The level of the demagnetizing field varies depending on difference in surface irregularity pattern of coins, and thus authenticity of coins can be determined based on the difference in surface irregularity pattern. This can be attained with a simple, inexpensive arrangement. Even those coins which are almost identical in material, outside diameter and thickness can be discriminated from one another based on the difference in surface irregularity pattern.
<IMAGE>

IPC 1-7

G07D 5/08

IPC 8 full level

G07D 5/02 (2006.01); **G07D 5/08** (2006.01)

CPC (source: EP KR)

G07D 5/005 (2013.01 - EP); **G07D 5/08** (2013.01 - EP KR)

Citation (search report)

- [XA] US 5458225 A 19951017 - IWAMOTO TAKAHISA [JP], et al
- [XA] EP 0731429 A2 19960911 - CUMMINS ALLISON CORP [US]
- [A] US 4705154 A 19871110 - MASHO YUKIO [JP], et al
- See references of WO 9944176A1

Cited by

EP2040227A3; EP1241636A3; EP1503170A4; US7708130B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0978807 A1 20000209; **EP 0978807 A4 20020306**; AU 2549499 A 19990915; AU 729021 B2 20010125; CA 2288297 A1 19990902; CA 2288297 C 20040427; JP 3660496 B2 20050615; JP H11250305 A 19990917; KR 100562857 B1 20060324; KR 20000076308 A 20001226; MY 123288 A 20060531; WO 9944176 A1 19990902

DOCDB simple family (application)

EP 99905308 A 19990225; AU 2549499 A 19990225; CA 2288297 A 19990225; JP 6037798 A 19980226; JP 9900881 W 19990225; KR 19997008409 A 19990916; MY PI9900723 A 19990226