

Title (en)

Device for counting and/or sorting coins

Title (de)

Vorrichtung zum Zählen und/oder Sortieren von Münzen

Title (fr)

Dispositif pour compter et/ou trier des pièces de monnaie

Publication

EP 1096432 A3 20021106 (DE)

Application

EP 00250334 A 20001011

Priority

- DE 19951458 A 19991026
- DE 10028934 A 20000616

Abstract (en)

[origin: EP1096432A2] Optical devices have a light source (6) and light-sensitive sensor devices (7) set opposite a coin's (1) main surface to convert contact light into electrical signals. The sensor devices are designed as a CCD element. The light source has an emitting source (8) and optical elements to create a parallel bundle of light rays orthogonal to a coin's main surface.

IPC 1-7

G07D 5/02

IPC 8 full level

G07D 3/00 (2006.01); **G07D 5/02** (2006.01)

CPC (source: EP US)

G07D 3/00 (2013.01 - EP US); **G07D 5/02** (2013.01 - EP US)

Citation (search report)

- [X] WO 9744760 A1 19971127 - PANZERI EZIO [AE], et al
- [A] GB 2272320 A 19940511 - MCL BOWEN LTD [GB]
- [DA] DE 2547685 B1 19770414 - ZIMMERMANN & CO F
- [A] EP 0629979 A2 19941221 - GRAEBENER PRESSENSYSTEME GMBH [DE], et al

Cited by

CN102262796A; DE102014018279A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1096432 A2 20010502; EP 1096432 A3 20021106; EP 1096432 B1 20120314; AT E549706 T1 20120315; DE 10028934 A1 20020110; DE 20023667 U1 20050512; ES 2384767 T3 20120712; NO 20005366 D0 20001025; NO 20005366 L 20010427; NO 327316 B1 20090608; US 6552781 B1 20030422

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EP 00250334 A 20001011; AT 00250334 T 20001011; DE 10028934 A 20000616; DE 20023667 U 20001011; ES 00250334 T 20001011; NO 20005366 A 20001025; US 69621100 A 20001025