

Title (en)
Coin sorting device

Title (de)
Münzsortiervorrichtung

Title (fr)
Dispositif de tri de pièces

Publication
EP 2390848 A1 20111130 (EN)

Application
EP 11166244 A 20110516

Priority
JP 2010119902 A 20100525

Abstract (en)
A coin which has been put into a coin slot (104) rolls along a coin passage (106). Light projected by a planar floodlight projector (132) positioned in parallel to the coin passage (106) transmits through a half mirror (134) toward the coin passage. A reflected light from the coin rolling along the coin passage is reflected by the half mirror (134), is guided in parallel to the coin passage (106), and reaches an image pickup element (138) via a converging lens (136). The image information picked up by the image pickup element (138) is compared with the reference information to determine the authenticity of the coin which has been put in. If the coin is determined to be a fake coin, a gate is not opened, and the coin is returned. If the coin is determined to be a true coin, the gate is opened, and the coin is accepted as a true coin.

IPC 8 full level
G07D 5/02 (2006.01)

CPC (source: EP)
G07D 5/02 (2013.01)

Citation (applicant)
• JP H07210720 A 19950811 - OKI ELECTRIC IND CO LTD
• JP 2006263281 A 20061005 - ARUZE CORP

Citation (search report)
• [Y] DE 20114010 U1 20011025 - WITKOWSKI GMBH AS [DE]
• [Y] DE 4338780 A1 19940519 - LAUREL BANK MACHINE CO [JP]
• [A] DE 102006017256 A1 20071018 - GIESECKE & DEVRIENT GMBH [DE]
• [A] DE 10028934 A1 20020110 - ZIMMERMANN GMBH & CO KG F [DE]
• [A] DE 102005028668 A1 20070104 - WALTER HANKE MECH WERKSTAETTEN [DE]
• [A] JP H0944641 A 19970214 - SANKYO SEIKI SEISAKUSHO KK

Cited by
EP2804154A1; US9947161B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2390848 A1 20111130; EP 2390848 B1 20130710; CN 102262796 A 20111130; CN 102262796 B 20130918; JP 2011248543 A 20111208; JP 5568798 B2 20140813

DOCDB simple family (application)
EP 11166244 A 20110516; CN 201110129248 A 20110518; JP 2010119902 A 20100525