

Title (en)

Method and apparatus for conditioning coins

Title (de)

Verfahren und Vorrichtung zur Münzbearbeitung

Title (fr)

Procédé et appareil pour le conditionnement de pièces de monnaie

Publication

**EP 1862977 A2 20071205 (EN)**

Application

**EP 07015920 A 19970228**

Priority

- EP 97907936 A 19970228
- US 1296496 P 19960307

Abstract (en)

A coin conditioner is provided for cleaning or otherwise conditioning coins in a coin discriminator apparatus prior to transfer to a coin sensor. Coins enter through a feed tray (1302) and move down the length of a perforated tumbler (1314), preferably without the use of gravity, such as under screw force, mechanical or centrifugal force. The spinning tumbler is preferably rotated about its longitudinal axis by a motor (1352). In one embodiment, a blower or vacuum draws or moves air from one area to another, with the air preferably being filtered. As coins move through and down a tumbler, projections such as vanes (1922a), fins, ridges, dimples (1820), spines or other raised features cause mechanical agitation and/or abrasion as coins are lifted and dropped while passing longitudinally through the tumbler. The coins are conditioned and non-coin matter is collected as it is separated and/or abraded from the coin surfaces. Tumbler perforations permit non-coin matter to pass through the perforations into a collection tray or other apparatus and/or are collected into filter media as a result of the air flow. In one embodiment, the air pressure system eliminates or reduces the occurrence of low density or light non-coin matter, such as hair or dust, and prevents these materials from settling or being carried through downstream portions of the coin processing system.

IPC 8 full level

**G07D 3/10** (2006.01); **G07D 9/00** (2006.01); **G07F 1/04** (2006.01)

CPC (source: EP)

**G07D 3/10** (2013.01); **G07D 9/008** (2013.01); **G07F 1/041** (2013.01)

Citation (applicant)

- US 1296496 P 19960307
- US 3048251 A 19620807
- WO 9530215 A1 19951109 - COINSTAR INC [US], et al
- US 4360034 A 19821123 - DAVILA JOSE E, et al
- US 3196887 A 19650727 - WHITE JR ROBY B

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 1862977 A2 20071205; EP 1862977 A3 20080402**

DOCDB simple family (application)

**EP 07015920 A 19970228**