

Title (en)

Device and method for detecting the amount of coins in a tank

Title (de)

Einrichtung und Verfahren zur bestimmung der Münzgeldmenge in einem Münztank.

Title (fr)

Système et procédé pour déterminer la quantité de monnaies se trouvant dans un réservoir.

Publication

EP 2230645 A1 20100922 (EN)

Application

EP 10002696 A 20100315

Priority

IT VI20090058 A 20090316

Abstract (en)

A device for measuring the number of coins in a coin handling device (G) comprising: one or more substantially tubular tanks (2); emitter means (4) of a magnetic field including at least one inductor (5) arranged peripherally to the tanks (2) and powered to generating the magnetic field susceptible to impinge the coins contained in the tanks (2); detector means (8) to detect magnetic losses of the magnetic field due to the coins; calculation means (9) to calculate the number of coins in the tanks (2) as a function of the magnetic losses. The emitter means (4) comprise a partition circuit composed by two passive elements (5, 7) one of which comprises the inductor (5). The detector means (8) include a measurement circuit (10) of the electric potential difference at the ends of the inductor (5) to measure the voltage value of the electric potential difference when the device (1) is powered so detecting the magnetic losses.

IPC 8 full level

G07D 1/00 (2006.01)

CPC (source: EP)

G07D 1/00 (2013.01)

Citation (search report)

- [I] DE 3802121 A1 19890803 - NSM APPARATEBAU GMBH KG [DE]
- [I] DE 4226611 A1 19931014 - NSM AG [DE]
- [I] US 6267662 B1 20010731 - JARD PHILIPPE S [US], et al

Cited by

EP2960873A1; CN107123189A; JP2022503298A; US11842594B2; WO2020072000A1

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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