Title (en)

Coin sorting method and apparatus therefor

Title (de)

Verfahren und Vorrichtung zum Sortieren von Münzen

Title (fr)

Méthode et dispositif pour trier des pièces de monnaie

Publication

EP 0653731 B1 19970820 (EN)

Application

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Priority

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Abstract (en)

[origin: EP0653731A2] The present invention provides a method and apparatus that can rapidly and accurately sort genuine from counterfeit coins without using a special high-performance CPU. The invention relates to a method of sorting genuine and counterfeit coins that are passing through a predetermined pathway, wherein a plurality of type-identifying means 14 and 15 is arranged along the predetermined pathway along which a plurality of types of coins M to be sorted are passing. This method of sorting genuine and counterfeit coins comprises the steps of: setting a plurality of mutually non-overlapping assumed domains 1 to 4, one for each of identification factors of the type-identifying means and corresponding to magnitudes of values thereof; determining whether an output from any of the type-identifying means belongs in any of the plurality of assumed domains; and sorting whether or not outputs from the identification means belong within a closed function domain in coordinates of a plurality of dimensions with axes along which the identification factors are plotted, in order to sort in accordance with each of identification factors of the plurality of types. The invention also relates to an apparatus for sorting genuine and counterfeit coins that are passing through a predetermined pathway, wherein a plurality of type-identifying means 14 and 15 is arranged along the predetermined pathway along which a plurality of types of coins M to be sorted are passing. This apparatus for sorting genuine and counterfeit coins comprises: an assumed region setting means for setting a plurality of mutually non-overlapping assumed domains, one for each of identification contents of the type-identifying means and corresponding to magnitudes of values thereof; a sorting means for determining whether an output from any of the type-identifying means belongs in any of the plurality of assumed domains; a function domain setting means for setting a closed function domain in coordinates of a plurality of dimensions with axes along which the identification factors are plotted, in order to sort in accordance with each of identification factors of the plurality of types; and a sorting means for sorting whether or not outputs from the identification means belong within the closed function domains; wherein genuine and counterfeit coins are sorted by an output from the sorting means. <IMAGE>

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