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(54) **SENSING METHOD FOR A COUNTERFEIT BILL DETECTOR**

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(57) **ABSTRACT**

A sensing method for a counterfeit bill detector includes (i) using multiple image-sensing modules to scan multiple pieces of image information of a bill and converting the multiple pieces of image information into multiple values of digital image, (ii) comparing each value of digital image with a pre-stored image threshold value to generate a reference value, (iii) adding the multiple reference values to generate an image validation value, (iv) comparing the image validation value with a pre-stored validation threshold value to acquire a comparison result, and (v) determining if the multiple pieces of image information are valid according to the comparison result. The sensing method tackles the issue of unsynchronized actions in bill sensing and bill scanning and simultaneously eliminates the problem of distorted scanned bill image arising from entry of mis-aligned bill to improve accuracy in bill validation.

12 Claims, 7 Drawing Sheets

