

Title (en)

Method and device for controlling the state of securities using a dark-field and a bright-field measurement.

Title (de)

Verfahren und Vorrichtung zur Zustandsprüfung von Wertpapieren mittels einer Dunkelfeldmessung als auch einer Hellfeldmessung.

Title (fr)

Procédé et dispositif pour contrôler l'état des papiers de valeur utilisant de mesure fond noir et fond clair.

Publication

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Application

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Priority

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Abstract (en)

[origin: DE19840482A1] The invention relates to a method and a device for controlling a paper document of value, notably for controlling the state of a bank note, according to which the bank note is subjected to both a dark-field measurement and a bright-field measurement. By comparing the results of the dark-field and the bright-field measurement a definite conclusion can be drawn as to whether a fault such as a hole, tear, etc. is present in the bank note in the area tested. The bright-field and dark-field measurement devices can be configured as separate devices each having an LED array and a detector array. However, preferred embodiments of the invention provide for either a common LED array with two detectors or two LED arrays with a common detector. If two LED arrays are used the dark-field radiation source is preferably configured as an infrared light source and the bright-field radiation source as a red light source to be able to control not only the state of the paper document but also its authenticity.

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