

Title (en)  
PAPER-SHEET AUTHENTICITY DETERMINATION DEVICE AND PAPER-SHEET AUTHENTICITY DETERMINATION METHOD

Title (de)  
PAPIERBOGENAUTHENTIZITÄTSBESTIMMUNGSVORRICHTUNG UND PAPIERBOGENAUTHENTIZITÄTSBESTIMMUNGSVERFAHREN

Title (fr)  
DISPOSITIF DE DÉTERMINATION DE L'AUTHENTICITÉ DE FEUILLES DE PAPIER ET PROCÉDÉ DE DÉTERMINATION DE L'AUTHENTICITÉ DE FEUILLES DE PAPIER

Publication  
**EP 3133562 B1 20230215 (EN)**

Application  
**EP 14889394 A 20140418**

Priority  
JP 2014061096 W 20140418

Abstract (en)  
[origin: EP3133562A1] An object is to realize a stricter authentication of a banknote while reducing the cost by making a sensor structure simpler. An excitation light is irradiated on a banknote having a characteristic to emit phosphorescence when irradiated with the excitation light, and a transmitted light passing through the banknote and an afterglow of the phosphorescence emitted by the banknote are detected with a line sensor (120). Authentication of the banknote is determined by evaluating the similarity between each of light-on image data (132) acquired while the excitation light is being irradiated, afterglow-intensity image data (134) generated from an afterglow intensity after the excitation light is turned off, and afterglow decay-rate image data (135) generated from a decay rate of the afterglow intensity after the excitation light is turned off, and a light-on reference image, an afterglow-intensity reference image, and an afterglow decay-rate reference image corresponding to a genuine banknote and stored previously.

IPC 8 full level  
**G07D 7/12** (2006.01); **G07D 7/1205** (2016.01)

CPC (source: EP)  
**G07D 7/1205** (2017.04)

Cited by  
CN111199231A; CN109979074A; US11467087B2; EP3503049B1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 3133562 A1 20170222**; **EP 3133562 A4 20171213**; **EP 3133562 B1 20230215**; JP 6247747 B2 20171213; JP WO2015159438 A1 20170413; WO 2015159438 A1 20151022

DOCDB simple family (application)  
**EP 14889394 A 20140418**; JP 2014061096 W 20140418; JP 2016513604 A 20140418