

Title (en)
MAGNETIC TESTING OF VALUABLE DOCUMENTS

Title (de)
MAGNETISCHE PRÜFUNG VON WERTDOKUMENTEN

Title (fr)
EXAMEN MAGNÉTIQUE DE DOCUMENTS DE VALEUR

Publication
EP 3874475 B1 20231206 (DE)

Application
EP 19801474 A 20191025

Priority
• DE 102018008519 A 20181030
• EP 2019000300 W 20191025

Abstract (en)
[origin: WO2020088790A1] The invention relates to the testing of valuable documents which have a security element with a number of magnetic regions, for example high-coercivity and/or low-coercivity magnetic regions. When all magnetic regions have been magnetised in a first direction, second magnetisation is performed, in which only the low-coercivity magnetic material is remagnetised, but the high-coercivity magnetic material remains oriented in the first direction of magnetisation. Magnetic signals of the security element are then detected using an inductive magnetic detector, which has a plurality of measuring tracks transverse to the direction of transport of the valuable document. In order to evaluate the magnetic signals of the measuring tracks, the strongest two local minima and maxima of a magnetic signal detected by a measuring track as a function of time are determined. By comparing the amplitudes of the particular magnetic signal in the minima and maxima, a minima comparison value and maxima comparison value of the measuring track are determined. The magnetic coding of the security element is checked on the basis of the minima comparison values and maxima comparison values.

IPC 8 full level
G07D 7/04 (2016.01); **G07D 7/004** (2016.01)

CPC (source: EP US)
B42D 25/369 (2014.10 - US); **G07D 7/004** (2013.01 - EP US); **G07D 7/04** (2013.01 - EP US)

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102018008519 A1 20200430; CN 112955938 A 20210611; CN 112955938 B 20220729; EP 3874475 A1 20210908;
EP 3874475 B1 20231206; PT 3874475 T 20240212; US 11263854 B2 20220301; US 2021407241 A1 20211230; WO 2020088790 A1 20200507

DOCDB simple family (application)
DE 102018008519 A 20181030; CN 201980070607 A 20191025; EP 19801474 A 20191025; EP 2019000300 W 20191025;
PT 19801474 T 20191025; US 201917289006 A 20191025