

Title (en)

Security of printing articles

Title (de)

Sicherheit von bedruckten Gegenständen

Title (fr)

Securité d'articles imprimés

Publication

EP 1066978 A2 20010110 (EN)

Application

EP 00113475 A 20000626

Priority

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Abstract (en)

There is disclosed a security printing system involving the use of thermochromic inks printed on an article such as a lottery ticket or pre-paid telephone card having an amount of credit thereon for use in a mobile telecommunications network. Two layers of thermochromic ink are applied to the article each having a different and sufficiently separate activation temperatures at which a certain characteristic of the ink changes, for example its colour, opacity, transparency or translucency. The first applied layer, in the shape of a validation mark or the like, ideally has an activation temperature higher than the second layer applied thereover, so that two separate tests can be performed on the article. A first test is the application of heat to the mark by a human finger or the like whereupon the second layer becomes ideally transparent to reveal the validation mark. The second test is the application of more heat, for example by a hairdryer or other dedicated heating apparatus, whereupon a particular characteristic of the first ink changes.

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Cited by

WO03103983A1; FR3034227A1; EP2863353A1; CN109165960A; FR3027845A1; US11090968B2; US7665732B2; US10940712B2; WO2005098948A1; WO2016071627A1; WO2009106242A1; US7157301B2; US7154170B2; WO2008024187A3; WO2015055506A1

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