

Title (en)
Security of printing articles

Title (de)
Sicherheit von bedruckten Gegenständen

Title (fr)
Sécurité d'articles imprimés

Publication
EP 1066978 A3 20010328 (EN)

Application
EP 00113475 A 20000626

Priority
• GB 9916166 A 19990709
• GB 0007183 A 20000325

Abstract (en)
[origin: EP1066978A2] 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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B41M 3/14; B42D 15/10

IPC 8 full level
B41M 3/14 (2006.01)

CPC (source: EP)
B41M 3/14 (2013.01)

Citation (search report)
• [XY] US 4554565 A 19851119 - KITO TUTOMU [JP], et al
• [Y] EP 0523888 A1 19930120 - PILOT INK CO LTD [JP]
• [X] US 3874240 A 19750401 - REMBAUM ALAN
• [A] WO 9731784 A2 19970904 - VERIFY FIRST TECHNOLOGIES INC [US]

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

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