

Title (en)  
Paper with security impression

Title (de)  
Papier mit Sicherheitsaufdruck

Title (fr)  
Papier doté d'une impression de sécurité

Publication  
**EP 2116385 A1 20091111 (DE)**

Application  
**EP 09005264 A 20090409**

Priority  
DE 102008023001 A 20080509

Abstract (en)  
The paper (1) comprises an imprinted marking (2), which is invisible for the human eye and is visible on a copy of the paper produced on a photocopying apparatus, and a water-mark (5). The marking is imprinted on both sides of the paper by raster points (3). An area (4) surrounding the marking is printed on with raster points that is smaller than the raster points of the marking. The entire paper is printed on one side with raster points. The ratio of the raster point size to the distance between two raster points is identical. The both raster points have same optical brightness. The paper (1) comprises an imprinted marking (2), which is invisible for the human eye and is visible on a copy of the paper produced on a photocopying apparatus, and a water-mark (5). The marking is imprinted on both sides of the paper by raster points (3). An area (4) surrounding the marking is printed on with raster points that is smaller than the raster points of the marking. The entire paper is printed on one side with raster points. The ratio of the raster point size to the distance between two raster points is identical. The both raster points have same optical brightness. The water-mark is brought into the paper after the paper production. A pattern is intended, which is recognized by a copier or a scanner.

Abstract (de)  
Ein Papier (1) weist eine aufgedruckte Kennzeichnung (2) auf, die für das menschliche Auge zumindest weitestgehend unsichtbar ist und auf einer auf einem Kopiergerät erzeugten Kopie des Papiers (1) sichtbar ist.

IPC 8 full level  
**G03C 5/08** (2006.01); **B41M 3/14** (2006.01); **B42D 15/00** (2006.01); **B44F 1/10** (2006.01); **D21H 21/40** (2006.01); **G03G 21/04** (2006.01)

CPC (source: EP US)  
**B41M 3/14** (2013.01 - US); **B41M 3/146** (2013.01 - EP); **B42D 25/29** (2014.10 - EP); **B42D 25/333** (2014.10 - EP US); **B44F 1/10** (2013.01 - EP); **D21H 21/40** (2013.01 - EP); **G03C 5/08** (2013.01 - EP); **G03G 21/046** (2013.01 - EP)

Citation (applicant)  
• DE 3424156 C2 19851031  
• DE 2819640 C2 19860417  
• DE 3419859 A1 19850131 - HOSOKAWA PRINTING [JP]

Citation (search report)  
• [X] US 2005151990 A1 20050714 - ISHIKAWA MASAOKI [JP], et al  
• [X] US 4210346 A 19800701 - BARAN JOSEPH [US], et al  
• [X] US 4351547 A 19820928 - BROOKS II DAVID L  
• [X] US 5171040 A 19921215 - ORNDORFF JOSEPH E [US]  
• [X] JP 2003054106 A 20030226 - TAKACHIHO SHOJI KK

Designated contracting state (EPC)  
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 SE SI SK TR

DOCDB simple family (publication)  
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DOCDB simple family (application)  
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