

Title (en)

Morphological security feature

Title (de)

Morphologisches Sicherheitsmerkmal

Title (fr)

Caractéristique de sécurité morphologique

Publication

EP 1998550 A1 20081203 (DE)

Application

EP 07010317 A 20070524

Priority

EP 07010317 A 20070524

Abstract (en)

The feature has a carrier substrate on which a continuous-tone image is printed. The continuous-tone image is transferred into a high-resolution bar element by a morphologic transition, which takes place in predetermined portions e.g. depth or interior, in the image. The bar element is mathematically defined by a guilloche function or a polygonal function. A carrier foil e.g. flexible plastic foils, is utilized as the carrier substrate and has a thickness of 5-700 micrometers preferably 12-50 micrometers.

Abstract (de)

Sicherheitsmerkmal aufweisend ein Trägersubstrat auf das ein Halbtonbild aufgedruckt ist, dadurch gekennzeichnet, dass das Halbtonbild durch einen morphologischen Übergang in ein höchst fein aufgelöstes Strichelement übergeführt ist.

IPC 8 full level

H04N 1/405 (2006.01)

CPC (source: EP US)

B42D 25/29 (2014.10 - EP US); **B42D 25/30** (2014.10 - US); **B42D 2035/14** (2022.01 - EP)

Citation (applicant)

- GB 2085360 A 19820428 - GAO GES AUTOMATION ORG
- US 4557596 A 19851210 - MUELLER HANS [DE], et al

Citation (search report)

- [X] GB 2085360 A 19820428 - GAO GES AUTOMATION ORG
- [X] US 4557596 A 19851210 - MUELLER HANS [DE], et al
- [A] US 2005115425 A1 20050602 - PLASCHKA REINHARD [DE], et al
- [A] WO 03057503 A1 20030717 - BAGGEROER F CHARLES [US], et al
- [A] WO 0220274 A1 20020314 - GIESECKE & DEVRIENT GMBH [DE], et al
- [A] EP 1044826 A1 20001018 - MAURER ELECTRONICS GMBH [DE]
- [A] US 5882463 A 19990316 - TOMPKIN WAYNE ROBERT [SZ], et al

Cited by

EP3446885A1; WO2019037887A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1998550 A1 20081203; AR 066705 A1 20090909; DE 112008001370 A5 20100415; US 2010290663 A1 20101118; UY 31098 A1 20090105; WO 2008141810 A2 20081127; WO 2008141810 A3 20091015

DOCDB simple family (application)

EP 07010317 A 20070524; AR P080102185 A 20080523; DE 112008001370 T 20080521; EP 2008004055 W 20080521; US 45165808 A 20080521; UY 31098 A 20080520