

Title (en)
Method for the manufacture of a safety marker

Title (de)
Verfahren zur Herstellung eines Sicherheitsmerkmals

Title (fr)
Procédé de fabrication d'une marque de sécurité

Publication
EP 2251207 A1 20101117 (DE)

Application
EP 09006340 A 20090511

Priority
EP 09006340 A 20090511

Abstract (en)
The marker has a carrier substrate (1) deposited on two partial layers (3, 4), where the layers have different colors or color impressions and include partial transparent recesses. The layers are absolutely identical to each other applied without tolerances. The layers have different thicknesses and stoichiometries, where the marker includes diffractive layers, liquid crystal layers, colored layers and luminescent layers with electrically conductive and magnetic characteristics. The layers are made of aluminum, copper, silver, iron, gold, chromium, nickel, zinc, cadmium, bismuth, tin, titanium dioxide, chromium oxides, zinc sulfide, indium tin oxide, bismuth-oxide, antimony tin oxide, fluorinated tin oxide, zinc oxide, aluminum oxide, non-stoichiometric aluminum oxide, zinc chromate, iron oxides, copper oxides, non-stoichiometric copper oxide, silver oxides, copper-aluminum alloys, copper-zinc alloys, iron alloys, steel, malachite or Azurite. An independent claim is also included for a method for preparing a safety marker.

Abstract (de)
Die Erfindung betrifft ein Sicherheitsmerkmal aufweisend ein Trägersubstrat (1) auf das zumindest zwei partielle Schichten (3,4) aufgebracht sind, dadurch gekennzeichnet, dass diese Schichten jeweils unterschiedliche Farben oder Farbeindrücke und jeweils zumindest teilweise transparente Aussparungen aufweisen, wobei die Schichten (3,4) absolut deckungsgleich zueinander ohne Toleranzen aufgebracht sind.

IPC 8 full level
B42D 15/00 (2006.01); **B44C 3/00** (2006.01)

CPC (source: EP US)
B42D 25/355 (2014.10 - EP US); **B42D 25/405** (2014.10 - US); **B42D 25/43** (2014.10 - EP); **D21H 21/42** (2013.01 - EP);
B42D 2033/10 (2022.01 - EP); **B42D 2035/24** (2022.01 - EP)

Citation (applicant)
EP 0330733 A1 19890906 - GAO GES AUTOMATION ORG [DE]

Citation (search report)
• [X] EP 1291463 A1 20030312 - HUECK FOLIEN GMBH [AT]
• [X] DE 102007055112 A1 20080710 - GIESECKE & DEVRIENT GMBH [DE]
• [A] DE 4041025 A1 19920625 - GAO GES AUTOMATION ORG [DE]
• [A] DE 3610379 A1 19871001 - SCHMOOCK HELMUTH

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

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2251207 A1 20101117; EP 2251207 B1 20211201; WO 2010130301 A1 20101118

DOCDB simple family (application)
EP 09006340 A 20090511; EP 2010000818 W 20100210