

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
10 March 2022 (10.03.2022)



(10) International Publication Number
WO 2022/049025 A1

- (51) International Patent Classification:
B42D 25/305 (2014.01) *B42D 25/369* (2014.01)
- (21) International Application Number:
PCT/EP2021/073864
- (22) International Filing Date:
30 August 2021 (30.08.2021)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
20194057.4 02 September 2020 (02.09.2020) EP
- (71) Applicant: **SICPA HOLDING SA** [CH/CH]; Avenue de Florissant 41, 1008 Prilly (CH).
- (72) Inventors: **DINOEV, Todor**; Route de la Maladière 4, 1022 Chavannes-près-Renens (CH). **DORIER, Jean-Luc**; Chemin de Cocagne 10, 1030 Bussigny (CH). **RAEMY, Xavier Cédric**; Route d'Arnier 40, 1092 Belmont-sur-Lau-

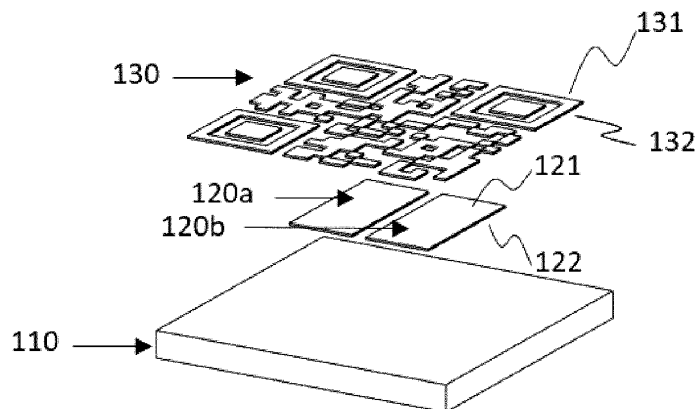
sanne (CH). **CARNERO, Benito**; Chemin du Grèbe 10, 1028 Préverenges (CH). **LOGINOV, Evgeny**; Avenue du Château 11, 1020 Renens (CH). **CALLEGARI, Andrea**; Chemin des Berges 4, 1022 Chavannes-près-Renens (CH).

(74) Agent: **HOFFMANN EITLE PATENT- UND RECHTSANWÄLTE PARTMBB**; Arabellastraße 30, 81925 Munich (DE).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(54) Title: SECURITY MARKING, METHOD AND DEVICE FOR READING THE SECURITY MARKING, SECURITY DOCUMENT MARKED WITH THE SECURITY MARKING, AND METHOD AND SYSTEM FOR VERIFYING SAID SECURITY DOCUMENT

Fig. 3



(57) Abstract: The invention relates to a security marking (100), a method and a device for reading and decoding the security marking (100), a security document (150) marked with the security marking (100), and a method and a system for verifying and authenticating said security document (150). The security marking (100) comprises a machine readable marking (130) overlapping with a magnetically induced layer (120) of a material including magnetically oriented reflective platelet-shaped magnetic or magnetizable pigment particles with two zones (120a) and (120b) of distinct orientations of the particles. The encoded data on the machine readable marking (130) being decodable only after the data separately read from the two zones (120a) and (120b) are gathered.

WO 2022/049025 A1

[Continued on next page]

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))