



(51) International Patent Classification:
B42D 25/00 (2014.01)

(21) International Application Number:
PCT/NL2016/050277

(22) International Filing Date:
20 April 2016 (20.04.2016)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2014690 22 April 2015 (22.04.2015) NL

(71) Applicant: **MORPHO B.V.** [NL/NL]; Oudeweg 32, 2031 CC Haarlem (NL).

(72) Inventors: **WESSELINK, Wilhelmus Johannes**; Reyer Anslostraat 11, 2025 TA Haarlem (NL). **VAN DEN BERG, Jan**; Bloklandpolderstraat 15, 2807 LH Gouda (NL).

(74) Agent: **NEDERLANDSCH OCTROOIBUREAU**; P.O. Box 29720, 2502 LS The Hague (NL).

(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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

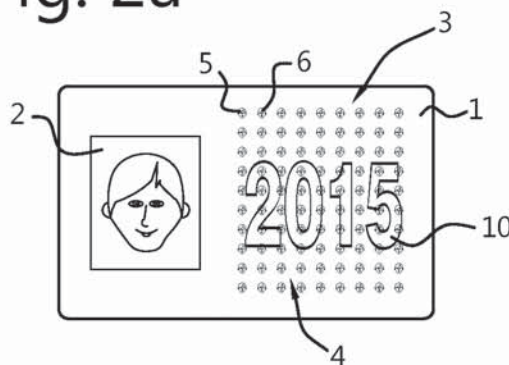
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, 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))

(54) Title: SECURITY DOCUMENT AND METHOD OF MANUFACTURING

Fig. 2a



(57) Abstract: The invention relates to a security document comprising an image area, a repeating image pattern in the image area of mutually spaced image elements at a mutual distance D and a layer of a plastics material overlying the image area and an array of lenses in the plastics material. The lenses are spaced at a mutual distance L which maybe equal to D or which may differ from D, the array of lenses overlying only a part of the image area surface and are formed in the plastics material within an image contour. Within the contour an image may be observed such as a Moiré magnification or a Moiré effect of light and dark stripes. The lenses may be formed for instance by laser ablation or by imprinting.