

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 November 2007 (22.11.2007)

PCT

(10) International Publication Number
WO 2007/131307 A1

- (51) International Patent Classification:
G06K 1/12 (2006.01) **G09F 7/16** (2006.01)
- (21) International Application Number:
PCT/BG2007/000008
- (22) International Filing Date: 11 May 2007 (11.05.2007)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
109541 11 May 2006 (11.05.2006) BG
- (71) Applicant (for all designated States except US): **KEIT LTD** [BG/BG]; j.k. Mladost 3, bl. 380, 1712 Sofia (BG).
- (71) Applicants and
- (72) Inventors: **ZHELEV, Zhivko** [BG/BG]; j.k. Mladost 4, bl. 417, fl. 8, ap. 31, 1712 Sofia (BG). **ZHELEV, Arkadiush** [BG/BG]; j.k. Mladost 2, bl. 236, vh. 1, ap. 21, 1712 Sofia (BG).
- (74) Agent: **VARBANOV, Julian**; J.Varbanov & partners, 3, Positano str., 2nd floor, 1000 Sofia (BG).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES,

FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

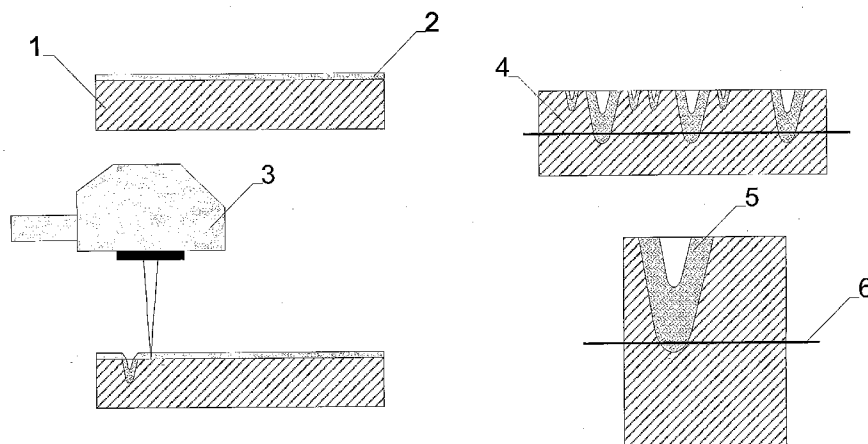
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- of inventorship (Rule 4.17(iv))

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND DEVICE FOR PROTECTION AND CONTROL OF ORIGINALITY OF PRODUCTS AND ELECTRONICALLY READABLE CERTIFICATE THEREOF



(57) Abstract: The invention relates to method and device for protection and control of originality of products and their components and electronically readable certificate thereof. Depending on the structure of product (1) an alloying layer (2) is deposited over the product. The layer (2) is affected by a subsequent controlled beam or jet marking carried out by means of a beam (3) depositing a restorable marking (4). In order to control or recover the marking the surface, the conductivity and the structure of the marked part is scanned in the area where the marking is deposited. The acquired image of the encoding elements of the markings is compared with information that contains relevance between the original marking and the encoded restorable elements. The information is recorded in a database as well on the accompanying electronically readable certificate (12) protected by means of a multimedia encrypted marking (13) against manipulation or counterfeit.