

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 November 2000 (30.11.2000)

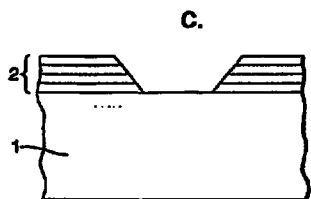
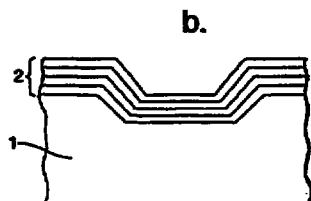
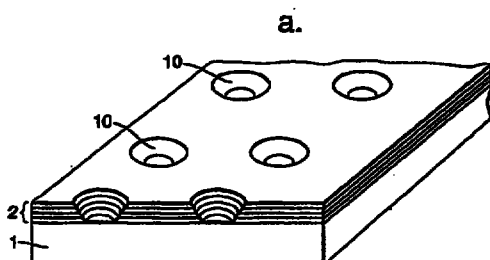
PCT

(10) International Publication Number
WO 00/72275 A1

- (51) International Patent Classification⁷: G07D 7/00, (72) Inventors; and
B42D 15/10 (75) Inventors/Applicants (for US only): LAWRENCE,
Christopher, Robert [GB/GB]; DERA Farnborough,
Hants GU14 0LX (GB). VUKUSIC, Peter [GB/GB];
University of Exeter, School of Physics, Stocker Road,
Exeter EX4 4QL (GB). SAMBLES, John, Roy [GB/GB];
University of Exeter, School of Physics, Stocker Road,
Exeter EX4 4QL (GB).
- (21) International Application Number: PCT/GB00/01837
- (22) International Filing Date: 19 May 2000 (19.05.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 9912081.8 25 May 1999 (25.05.1999) GB
- (71) Applicant (for all designated States except US): THE
SECRETARY OF STATE FOR DEFENCE [GB/GB];
Defence Evaluation Research Agency, A4 Building, Ively
Road, Farnborough, Hampshire GU14 0LX (GB).
- (74) Agent: BOWDERY, A., O.; D/IPD, DERA Formalities,
A4 Building, Ively Road, Farnborough, Hampshire GU14
0LX (GB).
- (81) Designated States (national): AE, AL, AM, AT, AU, AZ,
BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK,
DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL,

[Continued on next page]

(54) Title: SPECIALISED SURFACE



(57) Abstract: A multilayer surface comprising at least two layers, said layers having different refractive indexes such that selective wavelengths/colours are transmitted and or reflected. The layers are preferably laid onto a transparent substrate. The surface can be used as an anti-counterfeit device. A method of determining whether an article is counterfeit comprising: providing such a surface; determining its transmission/absorption characteristics of particular colour(s); matching these up with the expected characteristics to determine whether the surface is counterfeit. This may comprise observing the reflected or transmitted colour at two different angles of incidence or detecting changes in the polarisation state of transmitted light.

WO 00/72275 A1



PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ,
UA, UG, US, UZ, VN, YU, ZA, ZW.

Published:

— *With international search report.*

(84) **Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

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.