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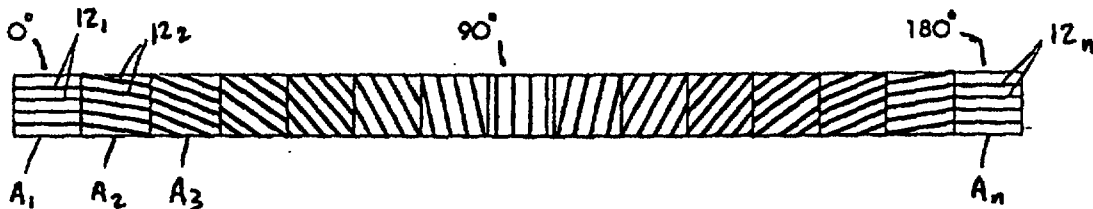
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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G02B 27/02, 27/22, B42D 15/10, G09F 19/14		A1	(11) International Publication Number: WO 98/20382
			(43) International Publication Date: 14 May 1998 (14.05.98)
(21) International Application Number: PCT/GB97/03062 (22) International Filing Date: 7 November 1997 (07.11.97) (30) Priority Data: ① 9623214.5 7 November 1996 (07.11.96) GB (71) Applicant (for all designated States except US): FRYCO LIMITED [GB/GB]; 22 Sedling Road, District 6, Washington, Tyne & Wear NE38 9BZ (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): DUNN, Paul [GB/GB]; 11 Cox Close, Shenley, Radlett, Hertfordshire WD7 9JQ (GB); ROWE, Andrew [GB/GB]; "Giffords", Lower Street, Stratford St. Mary, Colchester, Essex CO7 6JS (GB). (74) Agent: GIBSON, Stewart, Harry; Urquhart-Dykes & Lord, Three Trinity Court, 21-27 Newport Road, Cardiff CF2 1AA (GB).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments. 1 PD 1 Appl. 6 Invt	

(54) Title: OPTICAL IMAGES



(57) Abstract

A substrate is arranged to provide at least one optically variable image, the substrate being formed with a plurality of groups of elemental areas, the different groups forming respective image pixels. The different elemental areas (A₁ to A_n) of each group are formed with respective grooves or ridges or sets of grooves or ridges (12₁ to 12_n), which are at different orientations in the different elemental areas such that each elemental area of each pixel directs light to the viewer for a respective angle of view: for any given angle of view, the image seen by the viewer is made up of light reflected or refracted without interference from the different pixels, but only from a respective elemental area of each pixel.