

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 April 2002 (25.04.2002)

PCT

(10) International Publication Number
WO 02/33477 A2

- (51) International Patent Classification⁷: **G02F**
- (74) Agent: **G. E. EHRLICH (1995) LTD.**; 28 Bezalel Street, 52 521 Ramat Gan (IL).
- (21) International Application Number: PCT/IL.01/00949
- (22) International Filing Date: 15 October 2001 (15.10.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/688,120 16 October 2000 (16.10.2000) US
- (71) Applicant (*for all designated States except US*): **OPTID, OPTICAL IDENTIFICATION TECHNOLOGIES LTD.** [IL/IL]; P.O. Box 16120, 91 160 Jerusalem (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **EISENBERG, Naf-tali, P.** [IL/IL]; 47 Harav Ouziel Street, 96 423 Jerusalem (IL). **GLASER-INBARI, Isaia** [IL/IL]; 24 Hashnayim Street, 53 230 Givataim (IL). **DRORI, Avishai** [IL/IL]; 41 Hizkiyahu Street, Jerusalem 93 224 (IL). **KAROUBI, Reouven** [IL/IL]; 82 Herzl Street, Bat Yam 59 456 (IL). **ARIELI, Yoel** [IL/IL]; 14 Rabi Meir Street, 93 185 Jerusalem (IL).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, 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, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (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, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— *without international search report and to be republished upon receipt of that report*
- 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: DIRECTED REFLECTORS AND SYSTEMS UTILIZING SAME

(57) Abstract: A wide angle directed reflector is disclosed. The directed reflector includes a lenticular layer including at least one array of lenslets, each of which having a focal length. The directed reflector further includes a reflective layer which is disposed relative to the lenticular layer. The lenticular layer and the reflective layer are constructed, designed and relatively disposed such that light incident at an angle of incidence on the lenticular layer is reflected by the reflective layer and redirected through the lenticular layer at a substantially constant angle relative to the angle of incidence.

WO 02/33477 A2