



(43) International Publication Date
11 November 2010 (11.11.2010)

(10) International Publication Number
WO 2010/128325 A1

(51) International Patent Classification:
G01J 3/02 (2006.01) *G01J 3/28* (2006.01)

(21) International Application Number:
PCT/GB2010/050737

(22) International Filing Date:
5 May 2010 (05.05.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0908027.6 8 May 2009 (08.05.2009) GB
1003863.6 8 March 2010 (08.03.2010) GB
1007417.7 4 May 2010 (04.05.2010) GB

(71) Applicant (for all designated States except US): **ZINIR LTD** [GB/GB]; The Coachmakers Business Centre, 116A Seaside, Eastbourne, Sussex BN22 7QP (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **SWEENEY, Stephen John** [GB/GB]; c/o Zinir Ltd, The Coachmakers Business Centre, 116A Seaside, Eastbourne, Sussex BN22 7QP (GB).

(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, 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, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

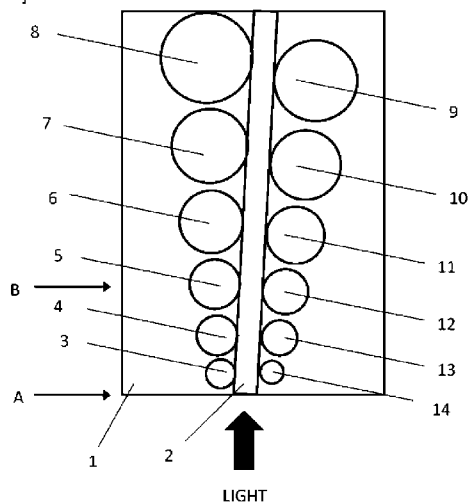
Published:

— with international search report (Art. 21(3))

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(54) Title: SPECTROPHOTOMETER

[Fig. 1]



(57) Abstract: A spectrophotometer comprising a monolithic semiconductor substrate, one or more wavelength dispersing means, and one or more wavelength detecting means, wherein the monolithic substrate (1) has waveguide means (2) and one or more resonators (3-14) acting as detectors of particular light wavelengths and disposed in proximity to the waveguide means in such a way that evanescent light coupling can occur for said light wavelengths.

WO 2010/128325 A1