(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
11 March 2010 (11.03.2010)

PCT

(10) International Publication Number
WO 2010/026116 A1

(51) International Patent Classification:
A61N 5/06 (2006.01) *A61B 18/18* (2006.01)

(21) International Application Number:
PCT/EP2009/061174

(22) International Filing Date:
28 August 2009 (28.08.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0815950.1 2 September 2008 (02.09.2008) GB

(71) Applicant *(for all designated States except US)*: **PHOTONICS APPLIANCE SOLUTIONS LIMITED** [CN/CN]; Room 906, 9/F., Tower B, New Trade Plaza, 6 on Ping Street, Shatin, N.T., Hong Kong (CN).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LUKOVKIN, Alexey** [RU/RU]; Boulevard Rokossovskogo 42 - 154, Moscow, 107258 (RU). **OVCHINNIKOV, Alexander** [RU/IE]; 7 Glenwood Estate, Cork Road, Carrigaline, Co. Cork (IE). **CHO, Honsue** [CN/AU]; 11 Station Street, East Kew, Victoria 3102 (AU). **MURPHY, Matt** [IE/IE]; Ballinvarosig, Carrigaline, Co. Cork (IE).

(74) Agents: **PIOTROWICZ, Pawel** et al.; Venner Shipley LLP, Byron House, Cambridge Business Park, Cowley Road, Cambridge Cambridgeshire CB4 0WZ (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, 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, 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).

Published:

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

WO 2010/026116 A1

(54) Title: THERAPEUTIC LIGHT SOURCE

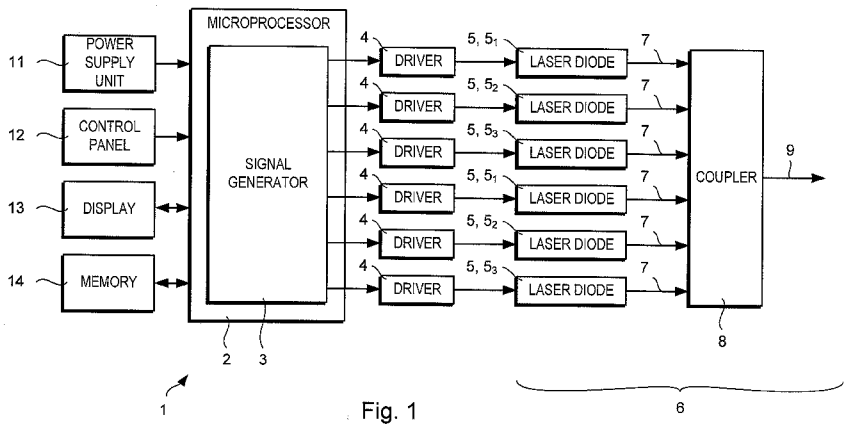


Fig. 1

(57) Abstract: A therapeutic light source comprising at least two laser diodes (5_1, 5_2, 5_3), means (2, 4) for causing the laser diodes to emit pulses of light substantially simultaneously and having intervals between pulses of less than 1 microsecond and means (8) for coupling light emitted by the laser diodes into an optical fibre.