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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
6 March 2003 (06.03.2003)

PCT

(10) International Publication Number
WO 03/017824 A3

(51) International Patent Classification[7]: A61N 5/06

(21) International Application Number: PCT/US02/26627

(22) International Filing Date: 22 August 2002 (22.08.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/933,870 22 August 2001 (22.08.2001) US

(71) Applicant: LIGHT BIOSCIENCE, INC. [US/US]; 3033 Little Haven Road, Virginia Beach, VA 23452 (US).

(72) Inventor: MCDANIEL, David, H.; 3033 Little Haven Road, Virginia Beach, VA 23452 (US).

(74) Agents: JAESCHKE, Wayne, Jr. et al.; Morrison & Foerster LLP, 1650 Tysons Boulevard, Suite 300, McLean, VA 22102 (US).

(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, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

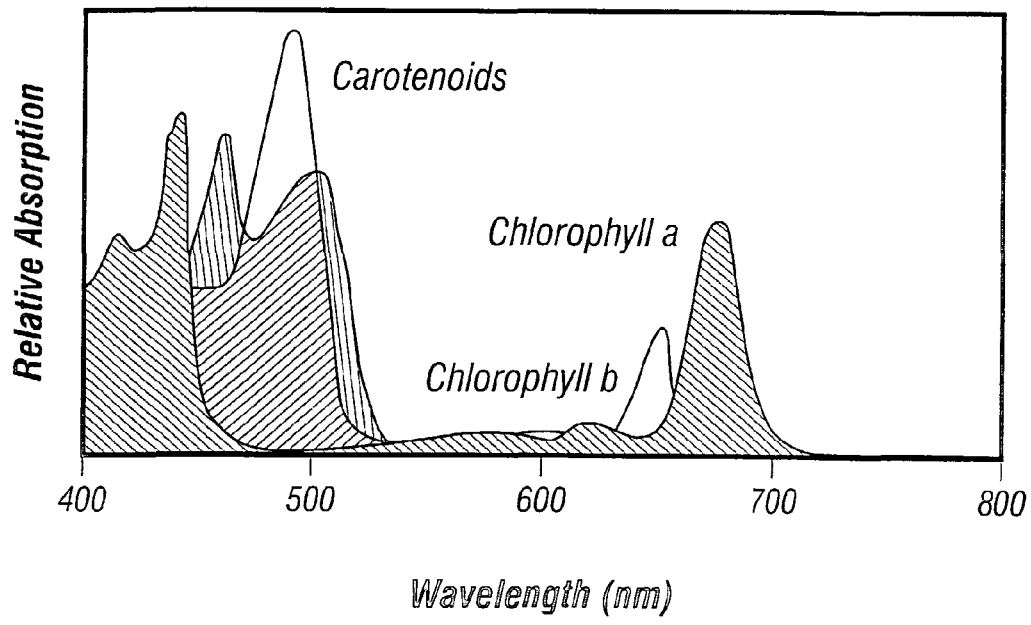
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,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

Published:
— *with international search report*

(88) Date of publication of the international search report:
23 October 2003

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: METHOD AND APPARATUS FOR ACNE TREATMENT



(57) Abstract: Disclosed is a system and method for treatment of skin disorders. More particularly, the disclosed invention is directed toward the treatment of acne and acne scarring by treating sebaceous oil glands and the surrounding tissue with an exogenous chromophore composition and then exposing the target tissue to visible, infrared, or ultraviolet light to inhibit the activity of the oil gland and eliminate acne bacteria. The treatment method of the present invention may be futher augmented by enhancing the penetration of the topical composition into the oil gland and surrounding tissue through the use of procedures including enzyme peeling, microderm abrasion, or ultrasound.

WO 03/017824 A3