21/10/03

200 2061173

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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
4 September 2003 (04.09.2003)

PCT

(10) International Publication Number
WO 03/073061 A3

(51) International Patent Classification[7]: G01M 11/02

(21) International Application Number: PCT/US03/05356

(22) International Filing Date: 21 February 2003 (21.02.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/359,074 21 February 2002 (21.02.2002) US

(71) Applicant *(for all designated States except US)*: JOHNSON & JOHNSON VISION CARE, INC. [US/US]; 7500 Centurian Parkway, Suite 100, Jacksonville, FL 32256 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: DISPENZA, Anthony, J. [—/US]; 1053 E. Chester Lake Road, Jacksonville, FL 32256 (US). WIDMAN, Michael, F. [—/US]; 2864 Claire Lane, Jacksonville, FL 32223 (US). GILES, Kevin, H. [—/US]; 1404 Bayhill Ridge Lane, Knoxville, TN 37922 (US). EBEL, James [—/US]; 3571 Emanuel Drive, Glendale, CA 91208 (US).

(74) Agents: JOHNSON, Philip, S. et al.; Johnson & Johnson, One Johnson & Johnson Plaza, New Brunswick, NJ 08933 (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, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, 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, HU, IE, IT, LU, MC, NL, PT, SE, SI, 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:
30 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.



162162



ACTION

WO 03/073061 A3

(54) Title: METHOD AND SYSTEM FOR INSPECTING OPTICAL DEVICES

(57) Abstract: A method of inspecting optical devices comprising (a) illuminating the optical device and a surrounding background with light, wherein said light comprises a first wavelenght band and a second wavelenght band, wherein said first wavelength band and said second wavelength band are different wavelengths, and wherein said first wavelength band has a first intensity and said second wavelength band has a second intensity; (b) transmitting said light throug said optical device wherein the majority of said first wavelength band is absorbed by said optical device and the majority of the second wavelength band is transmitted through said optical device, and capturing said lens transmitted light on a photo-sensitive pixel array; (c) transmitting said light through said surrounding background wherein the majority of said first wavelength band and said second wavelength band are transmitted, and capturing said background transmitted light on a photo-sensitive array; (d) reading pixels generated form step (b) and step (c) and comparing the gray scale values of saide reading, wherein the difference between the grayscale values of the pixels generated from said background transmitted light and from said lens transmitted light is of sufficient value to distinguish between holes in said optical device and bubbles in said surrounding backround.