



(51) International Patent Classification:
A61B 5/01 (2006.01)

(21) International Application Number:
PCT/IB2013/050990

(22) International Filing Date:
6 February 2013 (06.02.2013)

(25) Filing Language: Polish

(26) Publication Language: English

(30) Priority Data:
PL398030 6 February 2012 (06.02.2012) PL

(71) Applicant: **BRASTER SA** [PL/PL]; Szeligi, ul. Cichy Ogród 7, 05-850 Ożarów Mazowiecki (PL).

(72) Inventors: **STĘPIEŃ, Jacek Bernard**; ul. Organistów 19, 02-857 Warszawa (PL). **JAREMEK, Henryk**; ul. Rostworowskiego 28/3, 01-496 Warszawa (PL). **PIELAK, Grzegorz Franciszek**; Izbica, ul. Graniczna 2, 05-140 Serock (PL).

(74) Agent: **DARGIEWICZ-NOWICKA, Joanna**; Rudolfa Weigla 12, 53-114 Wrocław (PL).

(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, BN, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, RS, SE, SI, SK, SM, TR), OAPI (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 (Rule 48.2(g))

(54) Title: A DEVICE FOR IMAGING, RECORDING AND SAVING THERMOGRAPHIC IMAGE, A SYSTEM OF THREE LIQUID CRYSTAL MATRICES USED BY THIS DEVICE AND ITS APPLICATION FOR THE DETECTION OF THERMAL ANOMALIES, AND A METHOD OF DIAGNOSING OF THESE ANOMALIES

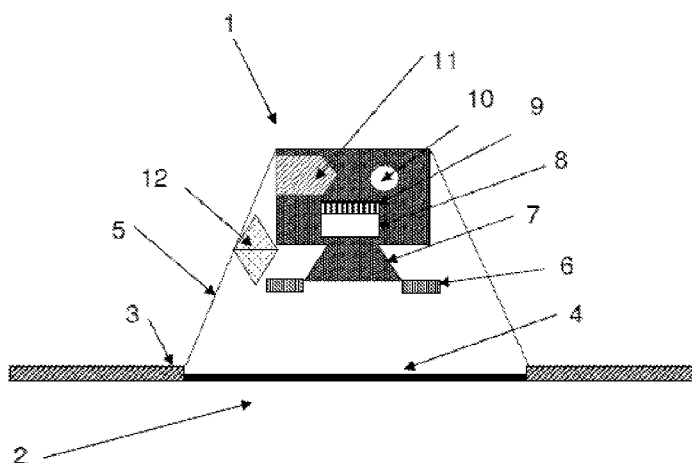


Fig. 1

(57) Abstract: The invention relates to a device for imaging, recording and saving a thermographic image of a breast, characterised in that it comprises a video recorder (1) and an infrared mapping liquid crystal matrix (2) working in the temperature range of approximately 1 ° in a range of 31,8 ° C to 34,8 ° C, wherein the recorder (1) preferably includes a housing (5), a light source (6), a camera (7) with an optoelectronic transducer (8), an analog-digital converter (9), a power source (10) and a storage medium (11). The present invention also refers to a method of diagnosing of the breast pathology using that device, a system of the three infrared mapping liquid crystal matrices (2) and its application for the detection of thermal anomalies on the surface of the breast.