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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
5 April 2012 (05.04.2012)

PCT

(10) International Publication Number
WO 2012/045091 A2

(51) **International Patent Classification**:
H04N 7/15 (2006.01)

(21) **International Application Number**:
PCT/US2011/054655

(22) **International Filing Date**:
3 October 2011 (03.10.2011)

(25) **Filing Language**: English

(26) **Publication Language**: English

(30) **Priority Data**:
12/896,808 1 October 2010 (01.10.2010) US

(71) **Applicant** *(for all designated States except US)*: **CREATIVE TECHNOLOGY LTD** [SG/SG]; 31 International Business Park, Singapore 609921 (SG).

(72) **Inventors; and**
(75) **Inventors/Applicants** *(for US only)*: **LEOW, Chon, Hock** [US/US]; 330 Sherwood Way, Menlo Park, CA 94025 (US). **BUI, Thinh** [US/US]; 180 Mary Beth Court, Fremont, CA 94539 (US).

(74) **Agents**: **GEAN, Desmund** et al.; Creative Labs Inc., 1901 McCarthy Blvd, Milpitas, CA 95035 (US).

(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, 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, 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, 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))*

WO 2012/045091 A2

(54) **Title**: IMMERSIVE VIDEO CONFERENCE SYSTEM

(57) **Abstract**: A preferred embodiment of a video conferencing system that may employ a video camera capable of capturing a view approximating 360 degrees, a viewing screen positioned to allow natural eye contact between conference participants, and a processing module capable of receiving and processing multiple data streams from video and audio capturing devices as well as data streams from other sources. In some embodiments, the video camera may be mounted above or below the viewing screen to capture an approximately 360 degree view of all locally appearing participants as well as the surrounding conference environment. The video conferencing system allows multiple participants participating from a single location to communicate easily and maintain natural eye contact with one another while maintaining eye contact with persons appearing from remote locations.