



- (51) **International Patent Classification:**
H04N 5/272 (2006.01) *G06T 7/00* (2006.01)
- (21) **International Application Number:**
PCT/GB2013/051205
- (22) **International Filing Date:**
9 May 2013 (09.05.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
1208088.3 9 May 2012 (09.05.2012) GB
- (71) **Applicant:** NCAM TECHNOLOGIES LIMITED
[GB/GB]; 8-9 Carlisle Street, London W1D 3BP (GB).
- (72) **Inventors:** BOIVIN, Samuel; 6b rue de Pont à chat,
91690 Saclas (FR). MICHOU, Brice; 24 avenue Marie
Amelie, 60500 Chantilly (FR).
- (74) **Agent:** ORIGIN LIMITED; Twisden Works, Twisden
Road, London NW5 1DN (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, 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:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(54) **Title:** A SYSTEM FOR MIXING OR COMPOSITING IN REAL-TIME, COMPUTER GENERATED 3D OBJECTS AND A VIDEO FEED FROM A FILM CAMERA

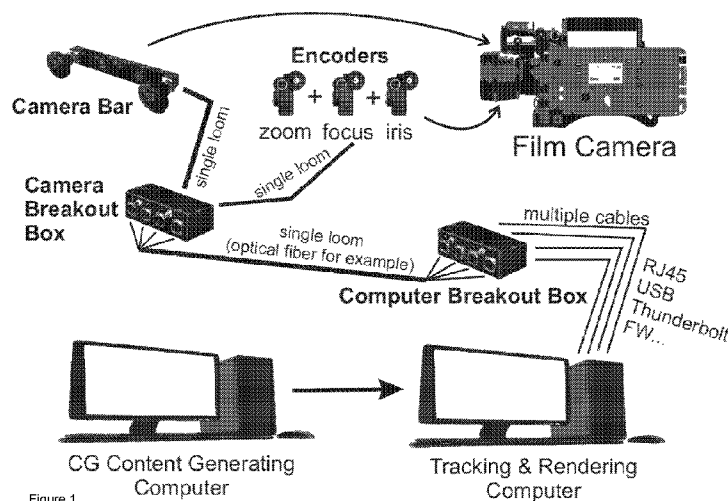


Figure 1

(57) **Abstract:** A method of mixing or compositing in real-time, computer generated 3D objects and a video feed from a film camera in which the body of the film camera can be moved in 3D and sensors in or attached to the camera provide real-time positioning data defining the 3D position and 3D orientation of the camera, or enabling the 3D position to be calculated.