

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 April 2006 (27.04.2006)

PCT

(10) International Publication Number
WO 2006/043258 A8

(51) International Patent Classification:
H04N 7/36 (2006.01)

(21) International Application Number:
PCT/IE2005/000117

(22) International Filing Date:
20 October 2005 (20.10.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0423578.4 22 October 2004 (22.10.2004) GB

(71) Applicant (for all designated States except US):
GREENPARROTPICTURES LIMITED [IE/IE]; Tomena, 2 Greenpark Road, Bray, Co Wicklow (IE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CRAWFORD, Andrew** [IE/IE]; Tomena, 2 Greenpark Road, Bray, Co Wicklow (IE). **ANIL, Kokaram** [TT/IE]; Tomena, 2 Greenpark Road, Bray, Co Wicklow (IE). **KELLY, Francis** [IE/IE]; Tomena, 2 Greenpark Road, Bray, Co Wicklow (IE). **DENMAN, Hugh** [IE/IE]; Tomena, 2 Greenpark Road, Bray, Co Wicklow (IE). **PITIE, Francois** [FR/IE]; Tomena, 2 Greenpark Road, Bray, Co Wicklow (IE).

(74) Common Representative: **ANIL, Kokaram**; Tomena, 2 Greenpark Road, Bray, Co Wicklow (IE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

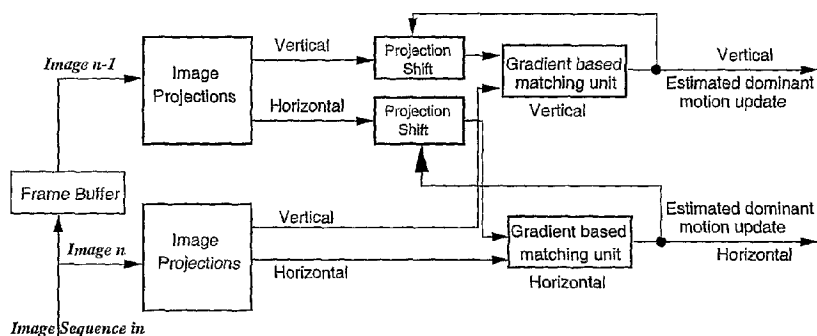
— with international search report (Art. 21(3))

(88) Date of publication of the international search report:
8 June 2006

(48) Date of publication of this corrected version:
30 June 2011

(15) Information about Correction:
see Notice of 30 June 2011

(54) Title: DOMINANT MOTION ESTIMATION FOR IMAGE SEQUENCE PROCESSING



(57) Abstract: Herein is described a method of estimating dominant motion between a current frame n and another frame m of an image sequence having a plurality of frames, the method comprising generating integral projections of the images and using gradients of those projections and using differences between the projections. The input may be any sequence of image frames from an image source, such as a video camera, an IR or X-ray imagery, radar, or from a storage medium such as computer disk memory, video tape or a computer graphics generator.