

Title (en)

METHOD AND DEVICE FOR CAPTURING AND CONSTRUCTING A STREAM OF PANORAMIC OR STEREOSCOPIC IMAGES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERFASSUNG UND HERSTELLUNG EINES PANORAMISCHEN ODER STEREOSKOPISCHEN BILDSTROMS

Title (fr)

PROCEDE ET DISPOSITIF DE CAPTURE ET DE CONSTRUCTION D'UN FLUX D'IMAGES PANORAMIQUES OU STEREOSCOPIQUES

Publication

EP 2920956 A1 20150923 (FR)

Application

EP 13808073 A 20131112

Priority

- FR 1260880 A 20121115
- FR 2013052707 W 20131112

Abstract (en)

[origin: CA2889811A1] In order to capture and construct a stream of panoramic or stereoscopic images of a scene, a plurality of consecutive operations of capturing, using an imaging device (C.), at least two different images of the scene, in the form of pixels and with or without overlap between the images, is carried out, the consecutive image-capture operations being paced at a frequency (F) that defines a capture duration (T) between the start of two consecutive capture operations. For each capture operation, (a) the pixels of each captured image are digitally processed in order to form a final panoramic or stereoscopic image from said pixels, the processing duration being no longer than said capture duration (T); and (b) a previously formed final panoramic or stereoscopic image is generated within a duration that is no longer than said capture duration (T). The digital processing (a) of each pixel of each captured image consists of at least keeping or abandoning said pixel, and if the pixel is kept, assigning said pixel one or more positions in the final panoramic or stereoscopic image, a weighting coefficient (W) being predefined for each position in the final panoramic or stereoscopic image.

IPC 8 full level

G06T 3/40 (2006.01); **H04N 5/232** (2006.01); **H04N 13/239** (2018.01); **H04N 13/243** (2018.01)

CPC (source: EP US)

G06T 3/4038 (2013.01 - EP US); **H04N 13/211** (2018.04 - EP US); **H04N 13/239** (2018.04 - EP US); **H04N 13/243** (2018.04 - EP US); **H04N 13/282** (2018.04 - EP US); **H04N 13/296** (2018.04 - EP US); **H04N 23/45** (2023.01 - US); **H04N 23/698** (2023.01 - EP US); **H04N 23/80** (2023.01 - US)

Citation (search report)

See references of WO 2014076402A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 2998126 A1 20140516; **FR 2998126 B1 20141226**; AU 2013346603 A1 20150514; AU 2013346603 B2 20170907; BR 112015010788 A2 20170711; BR 112015010788 A8 20191001; CA 2889811 A1 20140522; CN 104782114 A 20150715; CN 104782114 B 20190507; EP 2920956 A1 20150923; FR 3011968 A1 20150417; FR 3011968 B1 20160506; FR 3012000 A1 20150417; FR 3012000 B1 20160506; FR 3012001 A1 20150417; FR 3012001 B1 20160506; HK 1212835 A1 20160617; IL 238622 A0 20150630; IN 3812DEN2015 A 20151002; JP 2016503618 A 20160204; JP 2019041389 A 20190314; KR 20150084807 A 20150722; MX 2015006121 A 20150806; MX 355297 B 20180412; TW 201435792 A 20140916; TW 201804432 A 20180201; TW I612495 B 20180121; US 2015288864 A1 20151008; WO 2014076402 A1 20140522

DOCDB simple family (application)

FR 1260880 A 20121115; AU 2013346603 A 20131112; BR 112015010788 A 20131112; CA 2889811 A 20131112; CN 201380059682 A 20131112; EP 13808073 A 20131112; FR 1460844 A 20141110; FR 1460846 A 20141110; FR 1460848 A 20141110; FR 2013052707 W 20131112; HK 16100452 A 20160115; IL 23862215 A 20150504; IN 3812DEN2015 A 20150505; JP 2015542330 A 20131112; JP 2018180078 A 20180926; KR 20157011354 A 20131112; MX 2015006121 A 20131112; TW 102141393 A 20131114; TW 106135936 A 20131114; US 201314443097 A 20131112