

Title (en)

METHODS AND APPARATUS FOR CAPTURING AND/OR COMBINING IMAGES

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUFNEHMEN UND/ODER KOMBINIEREN VON BILDERN

Title (fr)

PROCÉDÉS ET APPAREIL DE CAPTURE ET/OU DE COMBINAISON D'IMAGES

Publication

EP 3058714 A1 20160824 (EN)

Application

EP 14854162 A 20141017

Priority

- US 201361893100 P 20131018
- US 201461978818 P 20140411
- US 201461981849 P 20140420
- US 201462021094 P 20140704
- US 201414327510 A 20140709
- US 201414327514 A 20140709
- US 201414327518 A 20140709
- US 201414327515 A 20140709
- US 201414327517 A 20140709
- US 201414327492 A 20140709
- US 201414327512 A 20140709
- US 201414327524 A 20140709
- US 201414327508 A 20140709
- US 201414327525 A 20140709
- US 201414516568 A 20141016
- US 2014061257 W 20141017

Abstract (en)

[origin: CN105829945A] The invention discloses methods and an apparatus for implementing and/or using a camera device. Methods and apparatus relating to camera devices including multiple optical chains are described. Some features are directed to using optical chains with different lens configurations to support a wide range of focal lengths in a camera device. In at least some embodiments non- circular outer lenses are used for optical chains with large focal lengths while optical chains of the same camera device which have smaller focal lengths use round outer lenses. Some features relate to implementing a camera having a depth which is less than the maximum length of the outer lens of at least one optical chain of the camera. Some features relating to image capture of image portions using optical chains with non-parallel optical axis are described. Some features relate to image capture of image portions using optical chains with different focal lengths. In some embodiments different portions of a scene captured by different optical chains are combined.

IPC 8 full level

H04N 5/225 (2006.01); **H04N 5/232** (2006.01); **H04N 5/262** (2006.01)

CPC (source: EP KR US)

G02B 5/04 (2013.01 - KR); **G02B 13/0065** (2013.01 - KR); **G02B 17/008** (2013.01 - EP KR US); **G02B 17/08** (2013.01 - KR); **H04N 5/28** (2013.01 - KR); **H04N 23/45** (2023.01 - EP US); **H04N 23/55** (2023.01 - KR); **H04N 23/6812** (2023.01 - EP US); **H04N 23/687** (2023.01 - EP US); **H04N 23/951** (2023.01 - EP US)

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)

CN 105829945 A 20160803; CN 105829945 B 20190409; CN 105830424 A 20160803; CN 105830424 B 20181211; CN 105830425 A 20160803; EP 3058416 A1 20160824; EP 3058416 A4 20170607; EP 3058416 B1 20191120; EP 3058713 A1 20160824; EP 3058713 A4 20171115; EP 3058713 B1 20210127; EP 3058714 A1 20160824; EP 3058714 A4 20171122; JP 2016540417 A 20161222; JP 2016540418 A 20161222; JP 2016541151 A 20161228; KR 20160075583 A 20160629

DOCDB simple family (application)

CN 201480067893 A 20141017; CN 201480068389 A 20141017; CN 201480068390 A 20141017; EP 14853227 A 20141017; EP 14854126 A 20141017; EP 14854162 A 20141017; JP 2016524434 A 20141017; JP 2016524463 A 20141017; JP 2016524532 A 20141017; KR 20167012992 A 20141017