

Title (en)

METHODS AND APPARATUS FOR USE WITH MULTIPLE OPTICAL CHAINS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERWENDUNG MIT MEHREREN OPTISCHEN KETTEN

Title (fr)

PROCÉDÉS ET APPAREIL POUR UNE UTILISATION AVEC DES CHAÎNES OPTIQUES MULTIPLES

Publication

**EP 3061235 A1 20160831 (EN)**

Application

**EP 14856356 A 20141026**

Priority

- US 201361896069 P 20131026
- US 201462068682 P 20141025
- US 2014062306 W 20141026

Abstract (en)

[origin: WO2015061769A1] Methods and apparatus for supporting zoom operations using a plurality of optical chain modules, e.g., camera modules, are described. Switching between use of groups of optical chains with different focal lengths is used to support zoom operations. Digital zoom is used in some cases to support zoom levels corresponding to levels between the zoom levels of different optical chain groups or discrete focal lengths to which optical chains may be switched. In some embodiments optical chains have adjustable focal lengths and are switched between different focal lengths. In other embodiments optical chains have fixed focal lengths with different optical chain groups corresponding to different fixed focal lengths. Composite images are generated from images captured by multiple optical chains of the same group and/or different groups. Composite image is in accordance with a user zoom control setting. Individual composite images may be generated and/or a video sequence.

IPC 8 full level

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

CPC (source: EP)

**H04N 23/45** (2023.01); **H04N 23/67** (2023.01); **H04N 23/69** (2023.01); **H04N 23/698** (2023.01)

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)

**WO 2015061769 A1 20150430**; EP 3061235 A1 20160831; EP 3061235 A4 20170712

DOCDB simple family (application)

**US 2014062306 W 20141026**; EP 14856356 A 20141026