

Title (en)

IMAGE CAPTURE WITH ADDITION OF ACCUMULATION SIGNALS FOR ADJACENT PHOTODETECTORS

Title (de)

BILDERFASSUNG UNTER ZUGABE VON AKKUMULATIONSSIGNALLEN FÜR BENACHBARTETE PHOTODETEKTOREN

Title (fr)

SAISIE D'IMAGE AVEC ADDITION DE SIGNAUX D'ACCUMULATION POUR DES PHOTODETECTEURS ADJACENTS

Publication

EP 2989787 A1 20160302 (FR)

Application

EP 14726685 A 20140422

Priority

- FR 1300966 A 20130425
- FR 2014050963 W 20140422

Abstract (en)

[origin: WO2014174195A1] An image capture instrument implements an addition of accumulation signals for photodetectors (10) which are adjacent within a row (1) of photodetectors. Segments (S1, S2, S3,...) are defined in the row with one and the same common length of segment (L), while being progressively offset by an offset length (M) which is constant. The accumulation signals are added together for photodetectors which belong to one and the same segment. The offset length is less than the segment length, and greater than half said segment length. Artifacts in the image captured, which are due to spectrum aliasing, are thus decreased. The signal-to-noise ratio of the image is increased.

IPC 8 full level

H04N 5/217 (2006.01); **H04N 5/347** (2011.01); **H04N 5/357** (2011.01); **H04N 5/369** (2011.01)

CPC (source: EP IL US)

H04N 23/81 (2023.01 - EP IL); **H04N 25/46** (2023.01 - EP IL US); **H04N 25/60** (2023.01 - EP IL); **H04N 25/701** (2023.01 - EP US)

Citation (search report)

See references of WO 2014174195A1

Citation (examination)

- US 2006077269 A1 20060413 - KINDT WILLEM J [US], et al
- ANONYMOUS: "SI-1920HD BINNING, 8 July 2005 (2005-07-08), XP055659536, Retrieved from the Internet <URL:http://www.siliconimaging.com/Specifications/SI-1920HD%20Binning.PDF> [retrieved on 20200120]
- ANONYMUS: "SI-640HF M & RGB MEGACAMERA (TM) VGA (640X480), 10-BIT, 80MH 250/500 FPS PROGRESSIVE SCAN DIGITAL CAMERA SPECIFICATIONS, 13 March 2008 (2008-03-13), XP055659517, Retrieved from the Internet <URL:https://web.archive.org/web/20080313232904/http://www.siliconimaging.com/SI-1920HD%20Specs.htm> [retrieved on 20200120]

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 2014174195 A1 20141030; CA 2909900 A1 20141030; CN 105264881 A 20160120; CN 105264881 B 20190118; EP 2989787 A1 20160302; FR 3005226 A1 20141031; FR 3005226 B1 20150410; IL 242174 B 20190228; US 2016073045 A1 20160310; US 9554065 B2 20170124

DOCDB simple family (application)

FR 2014050963 W 20140422; CA 2909900 A 20140422; CN 201480031794 A 20140422; EP 14726685 A 20140422; FR 1300966 A 20130425; IL 24217415 A 20151020; US 201414786487 A 20140422