

Title (en)
3D CAMERA AND METHODS OF GATING THEREOF

Title (de)
3D-KAMERA UND VERFAHREN ZU IHREM GATING

Title (fr)
CAMÉRA 3D ET PROCÉDÉS DE DÉCLENCHEMENT CORRESPONDANTS

Publication
EP 2235563 A1 20101006 (EN)

Application
EP 07849597 A 20071219

Priority
IL 2007001571 W 20071219

Abstract (en)
[origin: WO2009078002A1] A method of acquiring a 3D image of a scene, the method comprising: transmitting at least one light pulse having a pulse width at a transmission time to illuminate the scene; imaging light reflected by the scene from the at least one light pulse on a gateable photosurface during a plurality of sets of gates, each set comprising at least one first, second and third gate having start and stop times and for which, relative to a transmission time of a light pulse of the at least one light pulse, the start and stop times of the at least one first gate and the at least one second gate are between the start and stop times of the at least one third gate, wherein for at least one of the set of gates, the at least one third gate has a start time equal to about the stop time of the at least one third gate of another of the set of gates; and using amounts of reflected light imaged on the photosurface to determine distances to the scene.

IPC 8 full level
G01S 17/89 (2020.01); **G01S 17/18** (2020.01)

CPC (source: EP US)
G01S 17/18 (2020.01 - EP); **G01S 17/89** (2013.01 - EP US)

Citation (search report)
See references of WO 2009078002A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2009078002 A1 20090625; CN 102099703 A 20110615; EP 2235563 A1 20101006

DOCDB simple family (application)
IL 2007001571 W 20071219; CN 200780102336 A 20071219; EP 07849597 A 20071219