

Title (en)

MULTI-DETECTOR LIDAR SYSTEMS AND METHODS FOR MITIGATING RANGE ALIASING

Title (de)

LIDAR-SYSTEME MIT MEHREREN DETEKTOREN UND VERFAHREN ZUR MINDERUNG VON BEREICHSSALIASING

Title (fr)

SYSTÈMES LIDAR MULTI-DÉTECTEURS ET PROCÉDÉS D'ATTÉNUATION DU REPLIEMENT DE GAMME

Publication

EP 4229438 A1 20230823 (EN)

Application

EP 21881130 A 20211014

Priority

- US 202017070414 A 20201014
- US 202017070765 A 20201014
- US 2021055083 W 20211014

Abstract (en)

[origin: WO2022081910A1] Systems, methods, and computer-readable media are disclosed for multi-detector LIDAR and methods. An example method may include emitting, by a light emitter of a LIDAR system, a first light pulse. The example method may also include activating a first light detector of the LIDAR system at a first time, the first time corresponding a time when return light corresponding to the first light pulse would be within a first field of view of the first light detector. The example method may also include activating a second light detector of the LIDAR system at a second time, the second time corresponding a time when return light corresponding to the first light pulse would be within a second field of view of the second light detector, wherein the first light detector is configured to include the first field of view, the first field of view being associated with a first range from the light emitter, and wherein the second light detector configured to include the second field of view, the second field of view being associated with a second range from the light emitter.

IPC 8 full level

G01S 7/497 (2006.01); **G01S 7/484** (2006.01); **G01S 7/4861** (2020.01); **G01S 17/18** (2020.01); **G01S 17/87** (2020.01)

CPC (source: EP KR)

G01S 7/4816 (2013.01 - EP KR); **G01S 7/4861** (2013.01 - KR); **G01S 17/003** (2013.01 - EP KR); **G01S 17/18** (2020.01 - KR); **G01S 17/931** (2020.01 - KR); **B60W 2420/408** (2024.01 - KR); **G01J 2001/446** (2013.01 - KR); **G01S 17/18** (2020.01 - EP)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022081910 A1 20220421; EP 4229438 A1 20230823; EP 4229438 A4 20241023; KR 20230085159 A 20230613

DOCDB simple family (application)

US 2021055083 W 20211014; EP 21881130 A 20211014; KR 20237015271 A 20211014