

Title (en)

EXTENDED DYNAMIC RANGE AND REDUCED POWER IMAGING FOR LIDAR DETECTOR ARRAYS

Title (de)

ERWEITERTER DYNAMIKBEREICH UND BILDGEBUNG MIT VERRINGERTER LEISTUNGS-AUFNAHME FÜR LIDAR-DETEKTORANORDNUNGEN

Title (fr)

PLAGE DYNAMIQUE ÉTENDUE ET IMAGERIE À PUISSANCE RÉDUITE POUR RÉSEAUX DE DÉTECTEURS LIDAR

Publication

EP 3908853 A4 20221012 (EN)

Application

EP 20766812 A 20200305

Priority

- US 201962814452 P 20190306
- US 2020021109 W 20200305

Abstract (en)

[origin: WO2020181048A1] A Light Detection And Ranging (LIDAR) detector circuit includes a plurality of detector pixels, where each or a respective detector pixel of the detector pixels includes a plurality of detector elements. At least one control circuit is configured to provide one or more detector control signals that selectively activate one or more of the detector elements of the respective detector pixel to define a first active detection area including a first subset of the detector elements for a first image acquisition, and a second active detection area including a second subset of the detector elements for a second image acquisition. Related devices and methods of operation are also discussed.

IPC 8 full level

G01S 7/481 (2006.01); **G01S 7/486** (2020.01); **G01S 7/4863** (2020.01); **G01S 7/499** (2006.01); **G01S 17/89** (2020.01)

CPC (source: EP)

G01S 7/4815 (2013.01); **G01S 7/4816** (2013.01); **G01S 7/4863** (2013.01); **G01S 7/4868** (2013.01); **G01S 7/499** (2013.01); **G01S 17/89** (2013.01)

Citation (search report)

- [XYI] US 2019018117 A1 20190117 - PERENZONI DANIELE [IT], et al
- [Y] US 2017248796 A1 20170831 - BANKS PAUL S [US], et al
- See references of WO 2020181048A1

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

DOCDB simple family (publication)

WO 2020181048 A1 20200910; CN 113767305 A 20211207; EP 3908853 A1 20211117; EP 3908853 A4 20221012

DOCDB simple family (application)

US 2020021109 W 20200305; CN 202080033898 A 20200305; EP 20766812 A 20200305