

Title (en)
SHARED WAVEGUIDE FOR A LIDAR TRANSMITTER AND RECEIVER

Title (de)
GEMEINSAM GENUTZTER WELLENLEITER FÜR EINEN LIDARSENDER UND -EMPFÄNGER

Title (fr)
GUIDE D'ONDES PARTAGÉ POUR ÉMETTEUR ET RÉCEPTEUR LIDAR

Publication
EP 3676631 A4 20210414 (EN)

Application
EP 18852999 A 20180803

Priority
• US 201715695833 A 20170905
• US 2018045104 W 20180803

Abstract (en)
[origin: WO2019050643A1] One example system includes a light source that emits a light beam. The system also includes a waveguide that guides the emitted light beam toward an aperture. The system also includes a lens that directs the light beam, guided by the waveguide and transmitted through the aperture, toward a scene. The lens also receives light propagating from the scene toward the lens. The lens focuses the received light into the aperture. The waveguide also guides the focused light transmitted through the aperture. The system also includes a light detector. The waveguide transmits at least a portion of the focused light out of the waveguide and toward the light detector.

IPC 8 full level
G01S 7/481 (2006.01); **G01S 17/89** (2020.01)

CPC (source: EP US)
G01S 7/481 (2013.01 - EP); **G01S 7/4816** (2013.01 - EP); **G01S 17/89** (2013.01 - EP US)

Citation (search report)
• [X] US 5835458 A 19981110 - BISCHEL WILLIAM K [US], et al
• [A] WO 0145429 A2 20010621 - KSM ASSOCIATES INC [US], et al
• [A] US 2016363669 A1 20161215 - LIU RUILONG [CN]
• See references of WO 2019050643A1

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 2019050643 A1 20190314; CN 111051915 A 20200421; EP 3676631 A1 20200708; EP 3676631 A4 20210414; JP 2020532731 A 20201112; JP 6935007 B2 20210915

DOCDB simple family (application)
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