

Title (en)
OPTICAL COHERENT IMAGER HAVING SHARED INPUT-OUTPUT PATH AND METHOD FOR SENSING COHERENT LIGHT

Title (de)
OPTISCHE KOHÄRENTE BILDGEBER MIT GEMEINSAMEM EINGANGS-/AUSGANGSPFAD UND VERFAHREN ZUR ERFASSUNG VON KOHÄRENTEM LICHT

Title (fr)
IMAGEUR OPTIQUE COHÉRENT COMPORTANT UN TRAJET D'ENTRÉE-SORTIE PARTAGÉ ET PROCÉDÉ DE DÉTECTION DE LUMIÈRE COHÉRENTE

Publication
EP 4374509 A1 20240529 (EN)

Application
EP 21951079 A 20210721

Priority
US 2021042533 W 20210721

Abstract (en)
[origin: WO2023003550A1] The present disclosure provides an optical coherent imager implemented on a photonic integrated circuit (PIC) that enables shared path for transmitting and receiving optical signals by exploiting polarization diversity. The present disclosure also provides an optical coherent imager including an array of the optical coherent sensing units to simplify the design and calibrations of the imager, and a method for coherent sensing by the optical coherent imager.

IPC 8 full level
H04B 10/64 (2013.01); **G02B 6/42** (2006.01); **H04B 10/11** (2013.01)

CPC (source: EP IL KR)
A61B 5/0066 (2013.01 - EP IL KR); **G02B 5/3083** (2013.01 - EP IL KR); **G02B 6/2706** (2013.01 - IL KR); **G02B 27/283** (2013.01 - EP IL KR); **A61B 2562/046** (2013.01 - EP IL); **G02B 6/2706** (2013.01 - 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 2023003550 A1 20230126; AU 2021456934 A1 20230608; AU 2021456934 A9 20240208; CN 116601887 A 20230815; EP 4374509 A1 20240529; IL 305948 A 20231101; JP 2024505358 A 20240206; KR 20230097102 A 20230630

DOCDB simple family (application)
US 2021042533 W 20210721; AU 2021456934 A 20210721; CN 202180081093 A 20210721; EP 21951079 A 20210721; IL 30594823 A 20230914; JP 2023540146 A 20210721; KR 20237017788 A 20210721