

Title (en)
RECEIVING DEVICE OF A DETECTION DEVICE, DETECTION DEVICE, VEHICLE COMPRISING AT LEAST ONE DETECTION DEVICE AND METHOD FOR OPERATING AT LEAST ONE DETECTION DEVICE

Title (de)
EMPFANGSEINRICHTUNG EINER DETEKTIONSVORRICHTUNG, DETEKTIONSVORRICHTUNG, FAHRZEUG MIT WENIGSTENS EINER DETEKTIONSVORRICHTUNG UND VERFAHREN ZUM BETREIBEN WENIGSTENS EINER DETEKTIONSVORRICHTUNG

Title (fr)
DISPOSITIF DE RÉCEPTION D'UN DISPOSITIF DE DÉTECTION, DISPOSITIF DE DÉTECTION, VÉHICULE COMPRENANT AU MOINS UN DISPOSITIF DE DÉTECTION ET PROCÉDÉ DE FONCTIONNEMENT D'AU MOINS UN DISPOSITIF DE DÉTECTION

Publication
EP 4348295 A1 20240410 (DE)

Application
EP 22732444 A 20220524

Priority
• DE 102021113962 A 20210531
• EP 2022063967 W 20220524

Abstract (en)
[origin: WO2022253623A1] The invention relates to a receiving device (24) of a detection device for detecting objects (18) by means of electromagnetic signals (30), a detection device, a vehicle comprising at least one detection device, and a method for operating a detection device. The receiving device (24) comprises at least two receiving areas (40) of at least one receiver (38), by which electromagnetic signals (30) can be converted into electrical receiving signals, and at least one diffraction element (32) having a diffractive effect on electromagnetic signals (30), which diffraction element is arranged in a signal path of the electromagnetic signals (30) upstream of the at least two receiving areas (40). At least one diffraction element (32) is designed to divide intensities of incident electromagnetic signals (30) into at least two electromagnetic signal fractions (34) which are propagating on different signal paths (36). The at least one diffraction element (32) and the at least two receiving areas (40) are matched to one another in such a manner that at least two different signal paths (36) for electromagnetic signal fractions (34) are allocated to different receiving areas (40).

IPC 8 full level
G01S 7/481 (2006.01); **G01S 7/486** (2020.01); **G01S 7/4863** (2020.01); **G01S 17/931** (2020.01)

CPC (source: EP US)
G01S 7/4816 (2013.01 - EP); **G01S 7/4863** (2013.01 - EP); **G01S 7/4868** (2013.01 - EP); **G01S 17/931** (2020.01 - EP US)

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)
DE 102021113962 A1 20221201; EP 4348295 A1 20240410; JP 2024521207 A 20240528; US 2024255646 A1 20240801; WO 2022253623 A1 20221208

DOCDB simple family (application)
DE 102021113962 A 20210531; EP 2022063967 W 20220524; EP 22732444 A 20220524; JP 2023573635 A 20220524; US 202218565273 A 20220524