

Title (en)

METHOD FOR ASCERTAINING AT LEAST ONE PHYSICAL PARAMETER OF A SYSTEM BY EXPLOITING THE REFLECTION FROM A REFERENCE OBJECT

Title (de)

VERFAHREN ZUR ERMITTLUNG ZUMINDEST EINES PHYSIKALISCHEN PARAMETERS EINES SYSTEMS UNTER AUSNUTZUNG DER REFLEXION VON EINEM REFERENZOBJEKT

Title (fr)

PROCÉDÉ SERVANT À DÉTERMINER AU MOINS UN PARAMÈTRE PHYSIQUE D'UN SYSTÈME EN EXPLOITANT LA RÉFLEXION PAR UN OBJET DE RÉFÉRENCE

Publication

EP 3762740 A1 20210113 (DE)

Application

EP 19709448 A 20190305

Priority

- DE 102018001731 A 20180305
- EP 2019055405 W 20190305

Abstract (en)

[origin: WO2019170648A1] The present invention relates to a method for determining at least one physical parameter of a system comprising at least two reflection objects, comprising the steps of: producing a transmission signal comprising at least one modulated electromagnetic or acoustic wave; receiving a first reception signal, wherein the first reception signal is based on the transmission signal reflected by a first reflection object; receiving a second reception signal, wherein the second reception signal is based on the transmission signal reflected by a second reflection object; receiving a third or further reception signal(s), wherein the third or further reception signals is/are based on the transmission signal reflected by a first or second or further reflection object(s); ascertaining the at least one physical parameter of the system on the basis of the first reception signal and further reception signals; ascertaining unknown distances between reflection objects or material properties, composition or nature of the media between the reflection objects of the system on the basis of the first reception signal and further reception signals.

IPC 8 full level

G01S 13/34 (2006.01); **G01S 13/88** (2006.01); **G01S 15/34** (2006.01); **G01S 15/88** (2006.01); **G01V 3/00** (2006.01)

CPC (source: EP US)

G01N 22/00 (2013.01 - US); **G01N 29/12** (2013.01 - US); **G01S 13/34** (2013.01 - EP US); **G01S 13/88** (2013.01 - EP); **G01S 15/34** (2013.01 - EP US); **G01S 15/88** (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

DOCDB simple family (publication)

DE 102018001731 A1 20190905; EP 3762740 A1 20210113; US 12007464 B2 20240611; US 2021041550 A1 20210211; WO 2019170648 A1 20190912

DOCDB simple family (application)

DE 102018001731 A 20180305; EP 19709448 A 20190305; EP 2019055405 W 20190305; US 201916978326 A 20190305