

Title (en)

PHASE-BASED DISTANCE MEASUREMENT WITH CONSTANT GAIN APPLICATION

Title (de)

PHASENBASIERTE DISTANZMESSUNG MIT KONSTANTER VERSTÄRKUNGSANWENDUNG

Title (fr)

MESURE DE DISTANCE BASÉE SUR PHASE AVEC APPLICATION DE GAIN CONSTANT

Publication

EP 4034911 A1 20220803 (FR)

Application

EP 20768368 A 20200915

Priority

- FR 1910545 A 20190924
- EP 2020075746 W 20200915

Abstract (en)

[origin: WO2021058331A1] A method is proposed for measuring a distance between a vehicle and an identifier. The vehicle comprises a first radio frequency unit and the identifier comprises a second radio frequency unit. The method comprises two-way communication between the first radio frequency unit and the second radio frequency unit. The two-way communication comprises, for one or more frequency channels and by at least one from among a first radio frequency unit and a second radio frequency unit, an application of a predetermined and constant gain. The method further comprises determining a respective phase shift for each frequency channel. The method further comprises determining the distance between the vehicle and the identifier on the basis of the phase shifts. The method allows the measurement of the distance between the identifier and the vehicle to be improved.

IPC 8 full level

G01S 13/84 (2006.01); **B60R 25/24** (2013.01); **G01S 13/76** (2006.01); **G07C 9/00** (2020.01)

CPC (source: EP)

G01S 13/765 (2013.01); **G01S 13/84** (2013.01); **G07C 9/00309** (2013.01); **G07C 2009/00793** (2013.01); **G07C 2209/63** (2013.01)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 3101158 A1 20210326; **FR 3101158 B1 20210827**; EP 4034911 A1 20220803; WO 2021058331 A1 20210401

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