

Title (en)

ARRANGEMENT AND METHOD FOR RUNTIME MEASUREMENT OF A SIGNAL BETWEEN TWO EVENTS

Title (de)

ANORDNUNG UND VERFAHREN ZUR LAUFZEITMESSUNG EINES SIGNALS ZWISCHEN ZWEI EREIGNISSEN

Title (fr)

SYSTÈME ET PROCÉDÉ DE MESURE D'UN TEMPS DE PROPAGATION D'UN SIGNAL ENTRE DEUX ÉVÉNEMENTS

Publication

EP 3538920 A1 20190918 (DE)

Application

EP 18700454 A 20180103

Priority

EP 2018050142 W 20180103

Abstract (en)

[origin: WO2019134745A1] The invention relates to a method for runtime measurement of a signal between two events, wherein the phase shift between the signal upon occurrence of a first event and the signal upon occurrence of the second event is determined, and to an arrangement for carrying out the method. The aim of the invention is to provide a runtime measurement of a signal between a first and a second event, which can be carried out with high accuracy, at high speed and with low computational effort. This aim is achieved in that a modulation signal is generated, the phase position of which is determined as the first signature for the occurrence of the signal in the case of the first event, the phase position of the modulation signal is determined as the second signature for the occurrence of the signal in the case of the second event, and the runtime is determined as the difference in phase position of the first and second signatures.

IPC 8 full level

G01S 7/48 (2006.01); **G01S 7/4865** (2020.01); **G01S 17/89** (2020.01)

CPC (source: EP US)

G01S 7/4808 (2013.01 - EP US); **G01S 7/4865** (2013.01 - EP US); **G01S 7/497** (2013.01 - EP); **G01S 17/36** (2013.01 - US); **G01S 17/46** (2013.01 - EP US); **G01S 17/89** (2013.01 - EP US)

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See references of WO 2019134745A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

WO 2019134745 A1 20190711; CN 111758045 A 20201009; CN 111758045 B 20240709; DE 112018006163 A5 20200903; EP 3538920 A1 20190918; US 11953620 B2 20240409; US 2020393565 A1 20201217

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