

Title (en)

OPERATING METHOD AND CONTROL UNIT FOR AN ULTRASOUND TRANSCIVER, ULTRASOUND TRANSCIVER, AND WORKING APPARATUS

Title (de)

BETRIEBSVERFAHREN UND STEUEREINHEIT FÜR EINE ULTRASCHALLSENDEEMPfangSEINRICHTUNG, ULTRASCHALLSENDEEMPfangSEINRICHTUNG UND ARBEITSVORRICHTUNG

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT, UNITÉ DE COMMANDE POUR UN DISPOSITIF ÉMETTEUR-RÉCEPTEUR À ULTRASONS, DISPOSITIF ÉMETTEUR-RÉCEPTEUR À ULTRASONS ET DISPOSITIF DE TRAVAIL

Publication

EP 3622318 A1 20200318 (DE)

Application

EP 18723793 A 20180507

Priority

- DE 102017207679 A 20170508
- EP 2018061641 W 20180507

Abstract (en)

[origin: WO2018206476A1] The present invention relates to an operating method for an ultrasound transceiver (1), in which (i) the ultrasound transceiver (1) is operated alternatively and in particular in an alternating manner in transmission operation and in receiving operation, (ii) the ultrasound transceiver (1), subsequently to transmission operation and/or prior to receiving operation, is actively damped by being acted on by a sequence of counter control pulses, (iii) a phase position and/or a damping energy are/is determined or adapted iteratively via a training in such a way that (iv) a magnitude of the damping success at least temporarily assumes an at least locally optimal value or approximates this value.

IPC 8 full level

G01S 7/52 (2006.01); **B06B 1/02** (2006.01); **G01S 7/524** (2006.01); **G01S 7/527** (2006.01); **G01S 15/931** (2020.01); **G10K 9/12** (2006.01); **G10K 11/00** (2006.01)

CPC (source: EP US)

B06B 1/0215 (2013.01 - EP US); **G01S 7/52004** (2013.01 - EP US); **G01S 7/524** (2013.01 - EP US); **G01S 7/527** (2013.01 - EP US); **G01S 15/931** (2013.01 - US); **G10K 11/002** (2013.01 - US); **G10K 11/346** (2013.01 - EP); **G10K 11/348** (2013.01 - EP); **G01S 15/931** (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 102017207679 A1 20181108; CN 110612457 A 20191224; CN 110612457 B 20240312; EP 3622318 A1 20200318; JP 2020518825 A 20200625; JP 6890682 B2 20210618; US 11513203 B2 20221129; US 2020057152 A1 20200220; WO 2018206476 A1 20181115

DOCDB simple family (application)

DE 102017207679 A 20170508; CN 201880030553 A 20180507; EP 18723793 A 20180507; EP 2018061641 W 20180507; JP 2019560770 A 20180507; US 201816609373 A 20180507