Title (en)
ELECTRONIC APPARATUS AND METHOD OF DETECTING INFORMATION ABOUT TARGET OBJECT BY USING ULTRASOUND WAVES

Title (de)
ELEKTRONISCHE VORRICHTUNG UND VERFAHREN ZUR DETEKTION VON INFORMATIONEN ÜBER EIN ZIELOBJEKT MITHILFE VON ULTRASCHALLWELLEN

Title (fr)
APPAREIL ÉLECTRONIQUE ET PROCÉDÉ DE DÉTECTION D'INFORMATIONS CONCERNANT UN OBJET CIBLE À L'AIDE D'ONDES ULTRASONORES

Publication
EP 3478183 A4 20190731 (EN)

Application
EP 17862558 A 20171020

Priority
- JP 2016205748 A 20161020
- JP 2017145573 A 20170727
- KR 20170129108 A 20171010
- KR 2017011693 W 20171020

Abstract (en)
[origin: JP2018072318A] PROBLEM TO BE SOLVED: To provide an ultrasonic moving body detection device that can recognize a reflection wave from a moving body and detect the moving body even if the reflection wave is small or even in an environment in which there is another object.SOLUTION: An ultrasonic moving body detection device 1 includes: a transmission unit 15 for converting a transmission signal modulated with a particular code into an ultrasonic wave and transmitting it; reception units 21 and 25 for receiving a reflection wave generated by an object reflecting the ultrasonic wave, converting it into a reception signal, and demodulating it; a correlation value calculation unit 31 for calculating a correlation value between the demodulated reception signal and the particular code; a difference calculation unit 33 for calculating difference of prescribed two frames when a correlation value corresponding to one cycle of the particular code is set to one frame; and a moving body detection unit 34 for determining that a moving body is detected when the difference is larger than a prescribed threshold value.SELECTED DRAWING: Figure 1

IPC 8 full level
G01S 15/32 (2006.01)

CPC (source: EP US)
G01S 15/32 (2013.01 - US); **G01S 15/325** (2013.01 - EP)

Citation (search report)
- [XI] WO 2012066541 A2 20120524 - EPOS DEV LTD [IL], et al
- See references of WO 2018074900A1

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)
EP 3478183 A1 20190508; EP 3478183 A4 20190731; JP 2018072318 A 20180510

DOCDB simple family (application)
EP 17862558 A 20171020; JP 2017145573 A 20170727