

Title (en)
METHOD FOR OPERATING A RADAR DEVICE

Title (de)
VERFAHREN ZUM BETREIBEN EINER RADARVORRICHTUNG

Title (fr)
PROCÉDÉ POUR FAIRE FONCTIONNER UN DISPOSITIF RADAR

Publication
EP 3311189 A1 20180425 (DE)

Application
EP 16719095 A 20160429

Priority
• DE 102015211490 A 20150622
• EP 2016059608 W 20160429

Abstract (en)
[origin: WO2016206841A1] The invention relates to a method for operating a radar device (100), comprising the steps of: - determining a matrix with time signals of reflected radar radiation; - determining elements of a distance-velocity-power matrix of a radar target from said time signals; - carrying out a first one-dimensional discrete Fourier transform for the elements of said distance-velocity-power matrix in a first dimension; and - carrying out a second one-dimensional discrete Fourier transform for the elements of the distance-velocity-power matrix in a second dimension such that the second one-dimensional discrete Fourier transform is implemented for every second element of the distance-velocity-power matrix, in a mathematically-defined offset manner.

IPC 8 full level
G01S 7/35 (2006.01); **G01S 13/34** (2006.01); **G01S 13/58** (2006.01); **G01S 13/931** (2020.01)

CPC (source: CN EP US)
G01S 7/354 (2013.01 - CN EP US); **G01S 13/343** (2013.01 - CN EP US); **G01S 13/584** (2013.01 - CN EP US);
G01S 13/931 (2013.01 - CN EP US); **G01S 7/356** (2021.05 - CN EP US)

Citation (search report)
See references of WO 2016206841A1

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 102015211490 A1 20161222; CN 107787460 A 20180309; CN 107787460 B 20220318; EP 3311189 A1 20180425;
US 10684364 B2 20200616; US 2018164421 A1 20180614; WO 2016206841 A1 20161229

DOCDB simple family (application)
DE 102015211490 A 20150622; CN 201680037002 A 20160429; EP 16719095 A 20160429; EP 2016059608 W 20160429;
US 201615738502 A 20160429