

Title (en)

RADAR DEVICE AND METHOD HAVING AN ANTENNA ARRAY WITH TWO SWITCHING STATES OF DIFFERENT MODULATION

Title (de)

RADARVORRICHTUNG UND VERFAHREN MIT ANTENNENARRAY MIT ZWEI SCHALTZUSTÄNDEN UNTERSCHIEDLICHER MODULATION

Title (fr)

SYSTÈME RADAR ET PROCÉDÉ AVEC RÉSEAU D'ANTENNES PRÉSENTANT DEUX ÉTATS DE CONNEXION À MODULATION DIFFÉRENTE

Publication

EP 2981842 A1 20160210 (DE)

Application

EP 14706002 A 20140214

Priority

- DE 102013205892 A 20130403
- EP 2014052907 W 20140214

Abstract (en)

[origin: WO2014161687A1] The present invention creates a modulation concept for a radar having switched antennas. Individual switching states of the antenna array having the switched antennas are tightly intermeshed with the modulation of the radar signals. In this manner it is possible to use switched antennas in the time-multiplex method and thus enable short times between the switching states. This enables a phase evaluation even across the switching states.

IPC 8 full level

G01S 13/42 (2006.01); **G01S 13/93** (2006.01); **G01S 13/931** (2020.01)

CPC (source: CN EP US)

G01S 7/35 (2013.01 - US); **G01S 13/345** (2013.01 - EP US); **G01S 13/422** (2013.01 - CN EP US); **G01S 13/931** (2013.01 - CN EP US); **H01Q 3/24** (2013.01 - CN EP US); **H01Q 21/22** (2013.01 - CN EP US); **H01Q 25/002** (2013.01 - CN EP US); **G01S 13/343** (2013.01 - CN EP US); **G01S 13/345** (2013.01 - CN)

Citation (search report)

See references of WO 2014161687A1

Citation (examination)

- DE 102010064348 A1 20120705 - BOSCH GMBH ROBERT [DE]
- EP 2031415 A1 20090304 - FUJITSU LTD [JP]
- DE 102006032540 A1 20080117 - BOSCH GMBH ROBERT [DE]

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 102013205892 A1 20141009; CN 105074497 A 20151118; CN 105074497 B 20190625; EP 2981842 A1 20160210; JP 2016521357 A 20160721; JP 6348572 B2 20180627; US 10033098 B2 20180724; US 2016036124 A1 20160204; WO 2014161687 A1 20141009

DOCDB simple family (application)

DE 102013205892 A 20130403; CN 201480019747 A 20140214; EP 14706002 A 20140214; EP 2014052907 W 20140214; JP 2016505742 A 20140214; US 201414782219 A 20140214