Title (en)

RADIOFREQUENCY EXCITER OF A RECEIVING AND TRANSMITTING ANTENNA

Title (de)

HOCHFREQUENZERREGER EINER EMPFANGS- UND SENDEANTENNE

Title (fr)

EXCITATEUR RADIOFREQUENCE D'ANTENNE EN RECEPTION ET TRANSMISSION

Publication

EP 3811458 A1 20210428 (FR)

Application

EP 19730846 A 20190620

Priority

- FR 1800640 A 20180621
- EP 2019066343 W 20190620

Abstract (en)

[origin: WO2019243493A1] Compact radiofrequency exciter comprising at least one axial access intended to be connected to a radiating antenna, at least one output intended to retrieve received signals and at least one input intended to transmit signals, characterised in that the exciter comprises a first and a second septum polariser and a frequency filter, the second polariser being connected, via its common access, to a first rectangular access of the first polariser, and the frequency filter being connected to the second rectangular access of the first polariser and being configured to filter a reception or transmission frequency band, these two bands being different, and characterised in that at least one of the polarisers is configured to convert a circularly polarised signal received on said axial access of the exciter into a linearly polarised signal for a reception frequency band and in that at least one second polariser is configured to convert a linearly polarised signal transmitted to said exciter by said input into a circularly polarised signal for a transmission frequency band.

IPC 8 full level

H01P 1/17 (2006.01); **H01P 1/213** (2006.01)

CPC (source: EP US)

H01P 1/173 (2013.01 - EP US); **H01P 1/2131** (2013.01 - EP US); **H01Q 13/0233** (2013.01 - US); **H01Q 13/0241** (2013.01 - US); **H01Q 15/0026** (2013.01 - US)

Citation (search report)

See references of WO 2019243493A1

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)

WO 2019243493 A1 20191226; CA 3104044 A1 20191226; EP 3811458 A1 20210428; FR 3083014 A1 20191227; FR 3083014 B1 20220114; US 11387563 B2 20220712; US 2021257740 A1 20210819

DOCDB simple family (application)

EP 2019066343 W 20190620; CA 3104044 A 20190620; EP 19730846 A 20190620; FR 1800640 A 20180621; US 201917251149 A 20190620