Title (en)

COMMUNICATION APPARATUS AND COMMUNICATION METHOD

Title (de)

KOMMUNIKATIONSVORRICHTUNG UND KOMMUNIKATIONSVERFAHREN

Title (fr)

APPAREIL DE COMMUNICATION ET PROCÉDÉ DE COMMUNICATION

Publication

EP 4258557 A4 20240306 (EN)

Application

EP 21921892 A 20210129

Priority

CN 2021074498 W 20210129

Abstract (en)

[origin: WO2022160290A1] Provided in the present application are a communication apparatus and a communication method, which are applied to a microwave transmission system. The communication apparatus comprises a first orthogonal unit, a second orthogonal unit and a rotation unit, wherein a first end of the rotation unit is connected to the first orthogonal unit; a second end of the rotation unit is connected to the second orthogonal unit; the rotation unit is used for making the first orthogonal unit and/or the second orthogonal unit rotate in a first direction; and the first direction is a signal transmission direction between the first end and the second end of the rotation unit. A coupling amount of the communication apparatus can be adjusted by means of the rotation unit controlling the relative rotation included angle between the first orthogonal unit and the second orthogonal unit, the adjustment means is simple and easy to operate, materials of balanced-type specifications and unbalanced-type specifications in the communication apparatus are normalized, and the coupling amount of the communication apparatus is independent of frequency, such that the flatness of the coupling amount of the communication apparatus in a channel is greatly improved.

IPC 8 full level

H01P 1/06 (2006.01); **H01P 1/161** (2006.01); **H01P 5/04** (2006.01); **H01P 5/18** (2006.01)

CPC (source: EP)

H01P 1/062 (2013.01); **H01P 1/161** (2013.01); **H01P 5/04** (2013.01); **H01P 5/181** (2013.01)

Citation (search report)

- [Y] US 2019373673 A1 20191205 - SHEN YING [US], et al
- [XYI] CLARKE J ET AL: "Experimental study of orthomode couplers for use in power combining and distribution", IEE PROCEEDINGS SECTIONS A A I,, vol. 130, no. 5, 1 August 1983 (1983-08-01), pages 305 - 308, XP001366216
- [I] MONTERO J M ET AL: "C-Band antenna technology development - VPD", PREPARING FOR THE FUTURE, ESA, NOORDWIJK, NL, vol. 2, no. 4, 1 December 1992 (1992-12-01), pages 13 - 14, XP000336320, ISSN: 1018-8657
- See also references of WO 2022160290A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4258557 A1 20231011; **EP 4258557 A4 20240306**; WO 2022160290 A1 20220804

DOCDB simple family (application)

EP 21921892 A 20210129; CN 2021074498 W 20210129