

Title (en)

HIGH FREQUENCY ADAPTER FOR CONNECTING A RADIO FREQUENCY ANTENNA TO AN ANTENNA CONNECTOR

Title (de)

HOCHFREQUENZADAPTER ZUR VERBINDUNG EINER HOCHFREQUENZANTENNE MIT EINEM ANTENNENSTECKER

Title (fr)

ADAPTATEUR HAUTE FRÉQUENCE DESTINÉ À LA CONNEXION D'UNE ANTENNE HAUTE FRÉQUENCE À UN CONNECTEUR D'ANTENNE

Publication

**EP 4181313 B1 20240320 (DE)**

Application

**EP 21208497 A 20211116**

Priority

EP 21208497 A 20211116

Abstract (en)

[origin: US2023155278A1] A high frequency adapter for connecting a high frequency antenna to an antenna connector. The high frequency adapter comprises a waveguide adapted to transmit high frequency waves to and from the high frequency antenna. Further, it comprises an impedance matching element disposed within the waveguide. Further, the high frequency adapter comprises a conductive inner conductor electrically and mechanically connected to the impedance matching element and a conductive sheath connecting to the waveguide. In addition, the high frequency adapter includes an electrically insulative spacer element disposed between the sheath and the inner conductor, thereby insulating the inner conductor from the sheath and fluidically sealing the waveguide.

IPC 8 full level

**H01P 5/103** (2006.01)

CPC (source: CN EP US)

**H01P 5/08** (2013.01 - CN); **H01P 5/103** (2013.01 - EP US); **H01Q 1/22** (2013.01 - CN); **H01R 24/44** (2013.01 - CN)

Citation (examination)

- JP H02128503 A 19900516 - NEC YAMAGATA LTD
- DE 3127693 A1 19830526 - AEG TELEFUNKEN NACHRICHTEN [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

DOCDB simple family (publication)

**EP 4181313 A1 20230517**; **EP 4181313 B1 20240320**; CN 116137376 A 20230519; US 2023155278 A1 20230518

DOCDB simple family (application)

**EP 21208497 A 20211116**; CN 202211328423 A 20221026; US 202217988318 A 20221116