

Title (en)  
WAVEGUIDE INTERFACE STRUCTURE

Title (de)  
WELLENLEITER-SCHNITTSTELLENSTRUKTUR

Title (fr)  
STRUCTURE D'INTERFACE DE GUIDE D'ONDES

Publication  
**EP 4195401 A4 20240117 (EN)**

Application  
**EP 21859988 A 20210721**

Priority  
• CN 202010895432 A 20200831  
• CN 2021107660 W 20210721

Abstract (en)  
[origin: EP4195401A1] Embodiments of the present application relate to the technical field of microwave communications, and provide a waveguide interface structure. The waveguide interface structure (100) in the embodiments of the present application is configured for electrically connecting a first waveguide (10) and a second waveguide (20), and includes an electrical connection portion (11) with elasticity and a fixing portion (12) connected to the electrical connection portion (11). The fixing portion (12) is configured to abut against the end surface of the first waveguide (10). An opening for electromagnetic waves to pass is enclosed by the electrical connection portion (11). The electrical connection portion (11) is elastically pressed between an end surface of the first waveguide (10) and an end surface of the second waveguide (20), and the electrical connection portion is configured for electrically connecting the first waveguide (10) and the second waveguide (20).

IPC 8 full level  
**H01P 1/04** (2006.01); **H01P 1/00** (2006.01)

CPC (source: CN EP)  
**H01P 1/042** (2013.01 - CN EP)

Citation (search report)  
• [X] US 2009058571 A1 20090305 - TAKEMOTO DAI [JP], et al  
• [XA] EP 1104042 A2 20010530 - NEC CORP [JP]  
• [X] US 2018034124 A1 20180201 - BOLANDER LARS [SE], et al  
• See references of WO 2022042148A1

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 4195401 A1 20230614; EP 4195401 A4 20240117**; CN 114122644 A 20220301; JP 2023538358 A 20230907; WO 2022042148 A1 20220303

DOCDB simple family (application)  
**EP 21859988 A 20210721**; CN 202010895432 A 20200831; CN 2021107660 W 20210721; JP 2023511871 A 20210721