

Title (en)  
BROADBAND ORTHOMODE TRANSDUCER

Title (de)  
BREITBAND-ORTHOMODUS-WANDLER

Title (fr)  
TRANSDUCTEUR ORTHOMODE LARGE BANDE

Publication  
**EP 3910729 C0 20230607 (FR)**

Application  
**EP 21172702 A 20210507**

Priority  
FR 2004878 A 20200515

Abstract (en)  
[origin: CA3118228A1] The invention relates to an orthomode transducer and to a satellite transmission chain comprising the orthomode transducer, for transmitting a first signal and a second signal in orthogonal propagation modes. The transducer comprises: - a primary waveguide (501, 601) with a square or rectangular cross section, - two guided access means (510, 520) having firstly a free end via which the first signal and the second signal are respectively injected or recovered, and secondly two arms connected to the primary waveguide. Each guided access means comprises a junction (512, 522, 602) configured so as to connect the free end to the two arms of the guided access means, the two arms (513, 514, 523, 524, 610, 611) of each guided access means being connected to the primary waveguide at two off-centred locations on one or more sides of the primary waveguide symmetrically about an axis of symmetry of the primary waveguide.

IPC 8 full level  
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