

Title (en)

ULTRA-COMPACT E/H HYBRID COMBINER, NOTABLY FOR A SINGLE-REFLECTOR MFB ANTENNA

Title (de)

ULTRAKOMPAKTER E/H-HYBRIDKOMBINIERER, INSBESONDERE FÜR EINE EINZELREFLEKTOR-MFB-ANTENNE

Title (fr)

COMBINEUR HYBRIDE E/H ULTRACOMPACT NOTAMMENT POUR ANTENNE MFB MONO-REFLECTEUR

Publication

EP 3900105 A1 20211027 (FR)

Application

EP 19812787 A 20191203

Priority

- FR 1873121 A 20181218
- EP 2019083484 W 20191203

Abstract (en)

[origin: CA3123987A1] The invention relates to a 1:4 reciprocal compact E/H hybrid combiner-divider, comprising at least one primary waveguide (41) and two secondary waveguides (42, 43) forming an integral structure configured such that the primary guide (41) has a first end forming an input/output port (48) and a second end defining an opening (61) and such that each secondary guide has two ends forming two input/output ports (44-45, 46-47), as well as a side opening (62, 63) provided on one of the small side faces. The secondary guides (42, 43) are arranged so as to have a common side wall (51). They are arranged facing the main waveguide in such a way that the side openings (61, 62) face the opening (61) formed by one of the ends of the main waveguide (41) and that the common wall (51) is aligned with the median axis of the opening (61) of the main waveguide (41).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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FR 3090219 A1 20200619; **FR 3090219 B1 20221230**; CA 3123987 A1 20200625; EP 3900105 A1 20211027; US 2022069470 A1 20220303; WO 2020126477 A1 20200625

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