

Title (en)

High frequency antenna mounted on a telescopic mast.

Title (de)

Hochfrequenzantenne montiert auf einem Teleskopmast.

Title (fr)

Antenne hyperfréquence montée sur un mât télescopique.

Publication

EP 0003463 A1 19790808 (FR)

Application

EP 79400054 A 19790126

Priority

FR 7802337 A 19780127

Abstract (en)

[origin: US4283727A] A transmission path between a source of microwaves, such as a radar transceiver, and a load rectilinearly movable with reference thereto, such as an aerial mounted on a retractable mast of a submarine periscope, comprises two relatively movable parallel waveguides respectively connected to a pair of coaxial ancillary guide portions with mating extremities which are separated from each other in one relative position and are interfitted in another relative position of the source and the load. The male guide portion is externally grooved to form microwave chokes whose effect is enhanced by a peripheral layer of energy-absorbent coating disposed beyond these chokes as seen from the female guide portion. The main waveguides may be coaxial with the interfitting guide portions or may extend parallel thereto and be connected to them by respective elbows.

Abstract (fr)

Jonction coulissante pour raccorder deux guides d'ondes (3, 4) mobiles l'un par rapport à l'autre comprenant un premier tronçon de guide (1) connecté à un des guides (3) et un deuxième tronçon (2) connecté à l'autre guide (4). Ces deux tronçons peuvent coulisser l'un dans l'autre lors de l'établissement d'une liaison entre les deux guides. Ces deux tronçons comportent à leurs extrémités des moyens assurant une transmission quasi totale de l'énergie en particulier des pièges (5) et une revêtement absorbant (50); ainsi que des moyens (8, 9) absorbant la polarisation croisée. Application aux antennes télescopiques.

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Citation (applicant)

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