

Title (en)

PLASTIC WAVEGUIDE FOR THE PROPAGATION OF WAVES IN THE FREQUENCY RANGE COMPRISED BETWEEN 1 GHZ AND 10 THZ

Title (de)

KUNSTSTOFFWELLENLEITER ZUR WELLENAUSBREITUNG IM FREQUENZBEREICH ZWISCHEN 1 GHZ 10 THZ

Title (fr)

GUIDE D'ONDES PLASTIQUE POUR LA PROPAGATION D'ONDES DANS LA GAMME DE FREQUENCES COMPRISES ENTRE 1 GHZ ET 10 THZ

Publication

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Application

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Abstract (en)

[origin: CA3021295A1] The present invention relates to an assembly for propagating waves of frequencies comprised between 1 GHz and 10 THz. According to the invention, this assembly comprises: (a) a waveguide (11, 21) for guiding said waves, said waveguide (11, 21) being made from a plastic, one portion of said waves propagating in the interior of this waveguide (11, 21) and another portion of said waves propagating on the exterior of this waveguide (11, 21); and (b) a protective jacket (12) that encircles said wave guide (11, 21) while defining one or more spaces between said waveguide (11, 21) and said jacket, wherein said waves propagating on the exterior of said waveguide (11, 21) are contained, said protective jacket (12) thus forming a barrier protecting the latter from external interference.

IPC 8 full level

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