

Title (en)
WAVEGUIDE FILTER FOR MICROWAVES WITH NON-PARALLEL WALLS

Title (de)
WELLENLEITERFILTER FÜR MIKROWELLEN MIT NICHT PARALLELEN WÄNDEN

Title (fr)
FILTRE A GUIDE D'ONDE POUR MICRO-ONDES A PAROIS NON PARALLELES

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Application
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Abstract (en)
[origin: WO2007031639A1] The invention concerns a waveguide filter (200^{NP}) for microwaves, characterized in that it has, at least on part of its length, a cross-section having two mutually non-parallel opposite sides (111, 111'), for example trapezoid. The use of such a shape enables the power threshold for forming self-maintained electron avalanche discharges to substantially increased and satisfactory filtering properties to be obtained. The invention also concerns the use of such a filter in a high-power microwave transmitter operating in X and Ka bands, in particular for space applications.

IPC 8 full level
H01P 1/207 (2006.01); **H01P 1/208** (2006.01)

CPC (source: EP US)
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• JP 2004048486 A 20040212 - MITSUBISHI ELECTRIC CORP
• JP 2004289517 A 20041014 - NEC CORP

Cited by
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