

Title (en)

WIDE BAND MICROWAVE BAND SEPARATING DEVICE

Title (de)

BREITBAND-MIKROWELLENBANDTRENNEinRICHTUNG

Title (fr)

DISPOSITIF SEPARATEUR DE BANDES HYPERFREQUENCES A LARGE BANDE

Publication

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Application

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Priority

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- FR 0214049 A 20021108

Abstract (en)

[origin: FR2847079A1] The separator comprises an assembly of pairs of pass-band and low-pass filters (2.1 - 2.5). All the filters are made of super-conducting material, cooled in operation to a temperature less than the critical temperature of the material. The filters are arranged in order of decreasing frequency band. The separator for wide band hyperfrequency receivers comprises an assembly of pairs of pass-band and low-pass filters (2.1 - 2.5). Each pair of filters relates to a band of frequencies (Fbn - Fhn) which are to be separated from a range of bands. The pass-band filter has a pass-band lying between Fbn and Fhn (with Fbn less than Fhn), whilst the low-pass filter has a cut-off frequency situated at Fhn-1. All the filters are made of super-conducting material, cooled in operation to a temperature less than the critical temperature of the material. The pairs of filters are arranged in order of decreasing bands of frequency to be separated (channel 5 - channel 1) with respect to distance from the input of the separator.

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