

Title (en)

Thermally optimised hyperfrequency channel multiplexing device

Title (de)

Vorrichtung zum Multiplexen von thermisch optimierten Hyperfrequenzkanälen

Title (fr)

Dispositif de multiplexage de canaux hyperfréquence thermiquement optimisé

Publication

EP 2325939 B1 20120919 (FR)

Application

EP 10172203 A 20100806

Priority

FR 0904212 A 20090904

Abstract (en)

[origin: US2011058809A1] A microwave channel multiplexing device comprises several elementary filters connected in parallel with a common output port by way of a transverse waveguide, each filter comprising a lower end fixed to a support common to all the filters and an upper end away from the support, an external peripheral wall, at least one internal cavity defining an internal channel, a signal input connected to the internal cavity and a signal output connected to the transverse waveguide. The multiplexing device furthermore comprises a conducto-radiative device coupled mechanically and thermally to at least two filters, the conducto-radiative device comprising at least one thermally conducting plate, and linked to the external peripheral walls of each of said at least two filters, the plate being fixed at the level of the upper end of the filters. The invention applies to the field of satellite telecommunications and more particularly to signals repetition devices aboard satellites.

IPC 8 full level

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