

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

H01P 1/30 (2006.01); **H01P 1/213** (2006.01)

CPC (source: EP US)

H01P 1/2138 (2013.01 - EP US); **H01P 1/30** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

US 2011058809 A1 20110310; US 8340594 B2 20121225; CA 2714127 A1 20110304; CA 2714127 C 20160927; CN 102013915 A 20110413; CN 102013915 B 20150506; EP 2325939 A1 20110525; EP 2325939 B1 20120919; ES 2393250 T3 20121219; FR 2949923 A1 20110311; FR 2949923 B1 20110826; JP 2011061779 A 20110324; JP 5678317 B2 20150304; RU 2010136915 A 20120310; RU 2533668 C2 20141120

DOCDB simple family (application)

US 87082710 A 20100829; CA 2714127 A 20100831; CN 201010257808 A 20100818; EP 10172203 A 20100806; ES 10172203 T 20100806; FR 0904212 A 20090904; JP 2010195547 A 20100901; RU 2010136915 A 20100903