Title (en)

Antenna-filter-combiner

Title (de)

Antennen-Filter-Combiner

Title (fr)

Filtre-combineur pour antenne

Publication

EP 0633621 B1 19990922 (DE)

Application

EP 94110380 A 19940704

Priority

DE 4322843 A 19930708

Abstract (en)

[origin: EP0633621A1] Antenna-filter combiners serve for connecting a multiplicity of frequency channels to a sending antenna. For simple construction with low-loss transmission filters, an arrangement is provided according to the invention having mu circulators connected in a waveguide leading to the antenna, and mu transmission channels are in each case fed into the respective third gate of the circulators via a frequency-separating filter consisting of mu </= m partial filters connected together. In this case, the signal flow direction of the circulators is exploited so that the frequency channels already fed in at circulators 1...(beta -1) lying at positions in front along the course of the waveguide are at least approximately totally reflected at the frequency-separating filter of the beta th circulator and are fed on towards the antenna via possible further circulators (beta + 1)...n connected to frequency-separating filters. <IMAGE>

IPC 1-7

H01P 1/213

IPC 8 full level

H01P 1/213 (2006.01)

CPC (source: EP US)

H01P 1/2138 (2013.01 - EP US)

Cited by

DE102004054370B3

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 0633621 A1 19950111; **EP 0633621 B1 19990922**; DE 59408762 D1 19991028; FI 943265 A0 19940708; FI 943265 A 19950109; US 5546057 A 19960813

DOCDB simple family (application)

EP 94110380 Á 19940704; DE 59408762 T 19940704; FI 943265 A 19940708; US 40544595 A 19950316