

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 m circulators connected in a waveguide leading to the antenna, and m transmission channels are in each case fed into the respective third gate of the circulators via a frequency-separating filter consisting of $m \leq n$ 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 β th circulator and are fed on towards the antenna via possible further circulators ($\beta + 1$)... n connected to frequency-separating filters. <IMAGE>

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H01P 1/213

IPC 8 full level
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