No documents available for this priority number.

Espacenet

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Notch filter network

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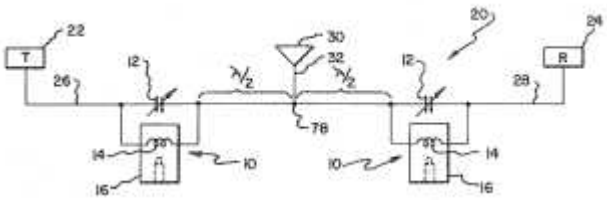
Abstract of US4186359 (A)



An electrical filter network with improved characteristics is disclosed for selectively attenuating and passing two different, closely spaced frequencies. The notch filter network includes a low Q reactive circuit tuned to be parallel resonant at the frequency to be attenuated. A cavity resonator with a high Q is inductively coupled to the reactive circuit and is tuned to be resonant at the frequency to be passed. Utilizing these concepts, a multicoupler may be constructed to consist of two or more such filter networks in combination with a transmission line. In such a multicoupler, the network adjacent to the antenna terminal is separated therefrom by a multiple of a half wavelength. Additional filter networks are separated from one another by an odd number of a quarter wavelength. With this arrangement, each network passes a band around the frequency to which the high Q cavity is tuned and rejects a band of frequencies around the reactive circuit resonant frequency.

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