

Title (en)
METHODS, SYSTEMS, AND NON-TRANSITORY COMPUTER READABLE MEDIA FOR WIDEBAND FREQUENCY AND BANDWIDTH TUNABLE FILTERING

Title (de)
VERFAHREN, SYSTEME UND ÜBERGANGSLOSES COMPUTERLESBARES MEDIUM FÜR BREITBAND-FREQUENZEN UND FILTERUNG MIT EINSTELLBARER BANDBREITE

Title (fr)
PROCÉDÉS, SYSTÈMES ET SUPPORTS LISIBLES PAR ORDINATEUR NON TRANSITOIRES POUR FILTRAGE LARGE BANDE ACCORDABLE EN FRÉQUENCE ET EN LARGEUR DE BANDE

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Abstract (en)
[origin: WO2013056270A1] Methods, systems, and computer readable media for wideband frequency and bandwidth tunable filtering are disclosed. According to one aspect, the subject matter described herein includes a wideband frequency and bandwidth tunable filter that includes: a first signal path for receiving a first input signal from a filter input node and producing a first output signal; a second signal path for receiving a second input signal from the filter input node and producing a second output signal, the second signal path including a filter circuit for adjusting the frequency spectrum of the second output signal; a conditioning circuit for conditioning at least one of the first input signal and the second input signal; a compensation device for adjusting at least one of a phase of the first output signal relative to a phase of the second output signal and an amplitude of the first output signal relative to an amplitude of the second output signal; and a signal combiner for combining the first output signal with the second output signal to produce a filter output signal having a desired frequency spectrum.

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