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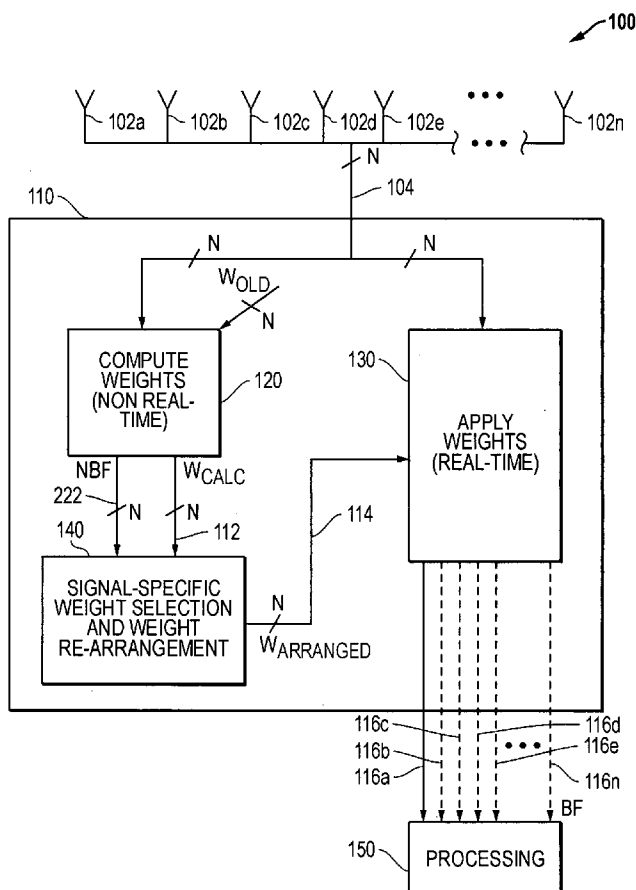
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(54) Title: METHODS AND SYSTEMS FOR SIGNAL SELECTION



(57) Abstract: A signal of interest (SOI) may be selected from among a plurality of co channel signals based on one or more internal or external structural feature/s of the SOI, e.g., automatically selected based on any one or more internal or external structural features of the SOI that is known a priori. Examples of such internal structural features include, but are not limited to, number, frequency and/or absolute or relative signal strength (signal to noise ratio) of one or more transmitted signal components (e.g., pilot tones, squelch tones, etc.) present in the SOI; absence of a signal component at a given frequency in the SOI (i.e., present as a "dead spot" at a given frequency within the SOI); signal strength versus frequency profile of the SOI, signal strength versus time domain profile of the SOI, transient characteristics, time versus frequency profile, etc.



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ABSTRACT

A signal of interest (SOI) may be selected from among a plurality of cochannel signals based on one or more internal or external structural feature/s of the SOI, *e.g.*, automatically selected based on any one or more internal or external structural features of the SOI that is known a priori. Examples of such internal structural features include, but are not limited to, number, frequency and/or absolute or relative signal strength (signal to noise ratio) of one or more transmitted signal components (*e.g.*, pilot tones, squelch tones, *etc.*) present in the SOI; absence of a signal component at a given frequency in the SOI (*i.e.*, present as a “dead spot” at a given frequency within the SOI); signal strength versus frequency profile of the SOI, signal strength versus time domain profile of the SOI, transient characteristics, time versus frequency profile, *etc.*