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(54) Title: WIDEBAND RECEIVER WITH INTERFERER REJECTION

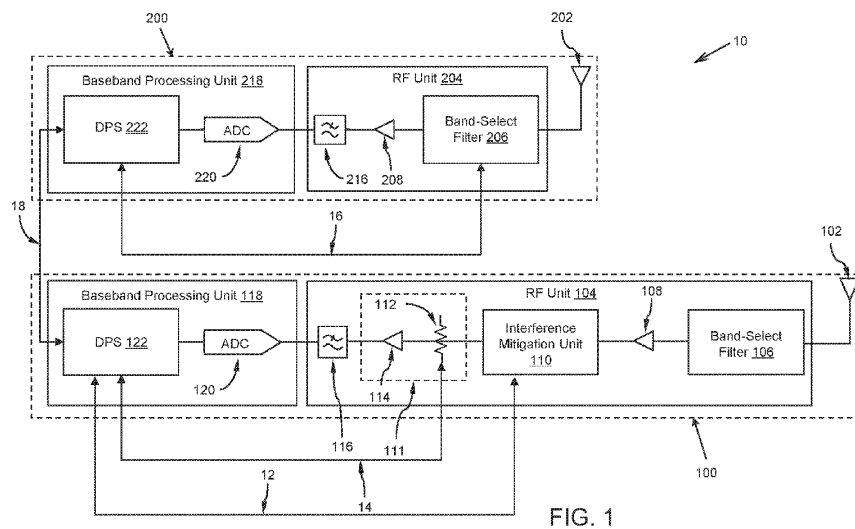


FIG. 1

(57) Abstract: A receiver system has at least one antenna that receives a plurality of signals, including a desired signal, across a wide band of frequencies. At least one tunable filter is in signal communication with the at least one antenna, and filters the plurality of signals to produce a plurality of filtered signals. Gain control circuitry is in signal communication with the at least one tunable filter, and produces a gain adjusted version of the filtered signals. A processing unit processes received signals in a portion of the wide band to extract signal characteristics of at least one undesired signal in the portion of the wide band. The at least one tunable filter is tuned based at least in part on the signal characteristics of the at least one undesired signal to maintain the SNR of the desired signal above a threshold level at the output of the gain control circuitry.

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