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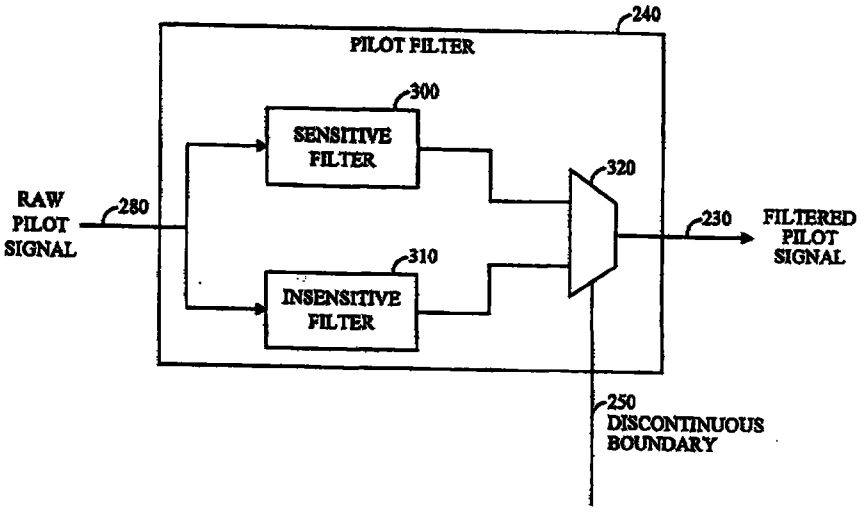
(54) Title: PILOT FILTERING IN THE PRESENCE OF PHASE DISCONTINUITIES IN A CDMA RECEIVER



(57) Abstract

A novel and improved method and apparatus for coherent demodulation in the presence of phase discontinuities is described. The pilot signal is prepared for optimal coherent demodulation by the use of two filters: one capable of withstanding the effects of phase discontinuity; a second providing superior filtering performance than the first so long as phase discontinuities are not present. Both filters are simultaneously operated. In the exemplary embodiment of the present invention, a sliding window filter (410) is employed for the superior performing filter absent phase discontinuity and a block filter (440) is employed for use when phase discontinuities are present.