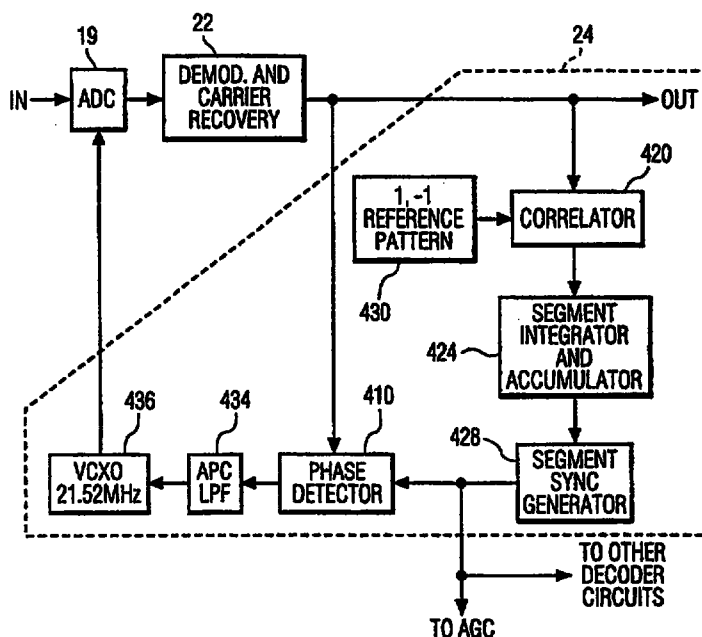




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(54) Title: SEGMENT SYNC RECOVERY NETWORK FOR AN HDTV RECEIVER



(57) Abstract

System for processing a received Vestigial Sideband (VSB) modulated signal containing high definition video data represented by a VSB symbol constellation, said data having a data frame format constituted by a succession of data frames comprising a field sync component prefacing a plurality of data segments having an associated segment sync component, apparatus comprising: a demodulator (22) responsive to said received signal for producing a demodulated signal; means (430) for providing a correlation reference pattern during segment sync intervals; and a data correlator (420) responsive to said demodulated signal and to said reference pattern for detecting said segment sync component; wherein said correlation reference pattern occupies less than four symbol intervals.