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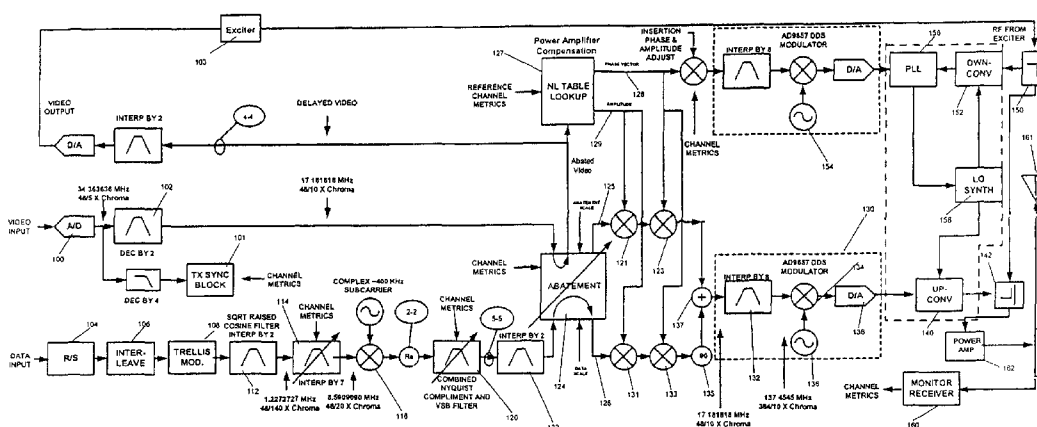
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(54) Title: ADAPTIVE EXPANDED INFORMATION CAPACITY FOR TELEVISION COMMUNICATIONS SYSTEMS



(57) Abstract: Methods and systems for simultaneous transmission of a standard analog television video signal and a data signal. A transmitter system comprises an analog video signal path and a data signal path. The data signal path produces a data signal that is added to, combined with, or otherwise imposed on the video signal, so as to be substantially in quadrature with the video signal as sensed by television receivers in the broadcast region. An abatement signal is generated and applied to the video signal to correct for effects of the data on the video signal. Receivers can among other things separate the data from the video signal, process the data signal in order to extract and recover the data, and forward the data for output. Such receivers can also include or contain, if desired, output to television receivers for rendering television programming. Other aspects and features are also disclosed and claimed.