APPARATUS FOR DEMODULATING AND DECODING SATELLITE, TERRESTRIAL AND CABLE TRANSMITTED DIGITAL TELEVISION DATA

ABSTRACT OF THE DISCLOSURE

A Digital signal processor selectively demodulates and decodes signals received from multiple types of transmission channels such as satellite, terrestrial and cable transmission channels. A received signal is representative of compressed digital video information such as television picture information, and is encoded in one of a plurality of coding formats (e.g., trellis or punctured codes of selectable code rate). The received signal is also modulated in one of a plurality of modulation formats (e.g., PAM, QAM or PSK). A demodulator selectively demodulates the signal modulated in one of the plurality of modulation formats, and a decoder selectively decodes the demodulated signal coded in one of the plurality of coding formats.

FIGURE 4