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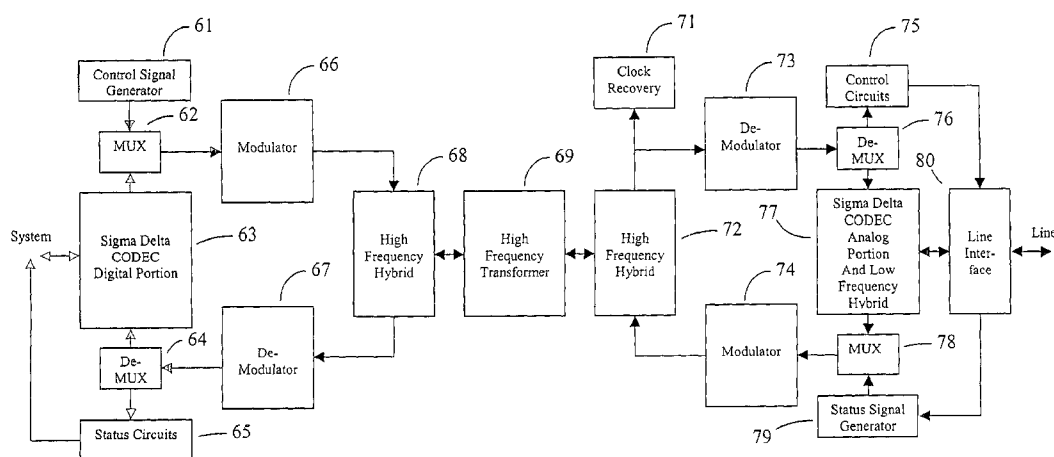
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(54) Title: DATA ACCESS ARRANGEMENT USING A HIGH FREQUENCY TRANSFORMER FOR ELECTRICAL ISOLA-
TION



(57) Abstract: An electrical isolation barrier for use in a Data Access Arrangement uses a high frequency (HF) transformer (24) to provide isolation. An input signal (21), which may be analog or digital, is connected to a modulator (22). The analog output of the modulator (22) is connected to the input of the HF transformer (24). The output of the HF transformer (24) is connected to the input of a demodulator (26). Simple amplitude modulation can be used in the modulator (22) to modulate the input signal (21) to the frequency range of operation of the HF transformer (24). A simple low pass filter may be incorporated in the demodulator (26) to remove harmonic distortion caused by the HF transformer (24). The output signal (27) of the demodulator (26) is substantially the same as input signal (21).