

AUTOMATIC GAIN CONTROL SYSTEM FOR A HIGH
DEFINITION TELEVISION SIGNAL RECEIVER
INCLUDING AN ADAPTIVE EQUALIZER

ABSTRACT

A high definition television receiver including analog and digital signal processing circuits (116,117) receives an analog high definition television signal representative of digital television information. The received signal contains narrowband high
5 priority information and wideband low priority information. An automatic gain control (AGC) signal is developed (174) from the narrowband information as a function of the values of coefficients of an associated adaptive equalizer (120), and as a function of the
10 number (162) of saturated samples processed by associated input analog-to-digital converters.

FIGURE 1



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