

ABSTRACT:

Television receiver with automatic tuning control.

5

TV receiver comprising an RF section, a mixer stage to which a tuning frequency is applied from a tuning oscillator, an IF section, a synchronous detection device and a frequency and phase-locked loop circuit comprising a PLL and a FLL, said IF section being coupled to a phase detector of the PLL and to a frequency detection device of the FLL, said phase detector and frequency detection device being commonly coupled to a loop branch having the two loops in common and incorporating a loop filter and a controllable oscillator, said controllable oscillator applying a local in-phase carrier to the synchronous detection device and a local phase quadrature carrier to the phase detector. To improve the tuning behaviour, an output of the loop filter is coupled to a circuit for generating a tuning control signal, which circuit comprises a comparison circuit for deriving a tuning control signal for the tuning oscillator from the difference between the value of the control signal of the controllable oscillator and a reference value, said controllable oscillator supplying an oscillator frequency which is equal to said intermediate frequency in the case of a control signal of the reference value.

Fig. 1.

This Sheet Has Been Replaced

