



ABSTRACT

In a television receiver, a magnetic field compensator of a horizontal component (H_h) of the earth's magnetic field includes a fluxgate magnetometer (61) having a pair of sensing windings ($100_U, 100_V$) for generating first (S_U) and second (S_V) sensing signals representative of corresponding components (H_U, H_V) of the horizontal component (H_h) of the earth's magnetic field. The sensing signals (S_U, S_V) generate current (i_{11}, i_{12}) in a pair of substantially planar coils (11,12) disposed in a non-parallel vertical configuration on the rear periphery of a cathode ray tube (10). The currents in the coils produce a magnetic field that compensates or neutralizes the effect of the horizontal component (H_h) of the earth's magnetic field on the electron beam in the cathode ray tube (10). Whenever the position of the receiver is changed, rotationally or geographically, the current in the coils (11,12) is automatically adjusted to provide automatic neutralization.