

ELECTRONIC CANCELLATION OF
AMBIENT NOISE IN TELEPHONE RECEIVERS

Abstract

5 A noise reducing circuit for electronic receiving instruments, such as
telephone receivers (12) in headsets or handsets that are used in noisy locations,
provides compensation of the set's receiver unit (11) to-error microphone (13)
transfer function to enhance the noise reduction. A further circuit (15) provides pre-
conditioning of the incoming voice signal to make the noise cancellation more
effective. The tendency of these noise cancelling circuits to oscillate is substantially
10 lessened by added circuitry which rapidly detects onset of oscillation and
momentarily reduces the noise cancellation without interrupting the incoming speech
path altogether.

This Sheet Has Been Replaced



THIS SHEET HAS BEEN
REPLACED