

SECTION
E
DETECTOR UNITS.

SUB SECTION **E A** DETECTORS.

DETECTOR UNIT E (VALVE BOARD) PAGE EA2.

SUB SECTION **E B** HETERODYNE DETECTORS.

HETERODYNE DETECTOR UNIT E 25X *PAGE EB2*

HETERODYNE DETECTOR UNIT E 26X *PAGE EB4*

DETECTOR UNIT E (VALVE BOARD)

Date of design - 1921.
 Frequency range - All waves.
 Where fitted - Receiver Outfits 14, C1 and C2 when fitted in destroyers.
 Valves used - 1N2A Cumulative grid detector (1).

Board E is supplied as a standard for the amplifier in various receiver-outfits. It consists of an ebonite base board with valve holder, grid insulating condenser (4) and leak (5), and a filament rheostat (6).

The valve (1) acts as a simple detector and amplifier for L.O.W. signals and may be used for receiving C.W. by fitting a reaction coil (16) coupled to the input tuned circuit (15).

The reaction coil (16) should consist of 50 to 100 turns of 28 gauge wire wound on the ordinary three inch aerial spreader, the number of turns depending on the frequency range on which the board E is to be used. (The higher the frequency the fewer the turns).

The reaction coil should be placed in the vicinity of the input tuned circuit with a pair of flexible leads to connect the winding in series with the telephone transformer primary (14).

It should be noted that this circuit will cause interference by re-radiation in the aerial.

When Board E is supplied with a tuner amplifier and no separate tuner unit, it is necessary to construct one locally. It is under consideration to supply suitable plug in coils in the above case.

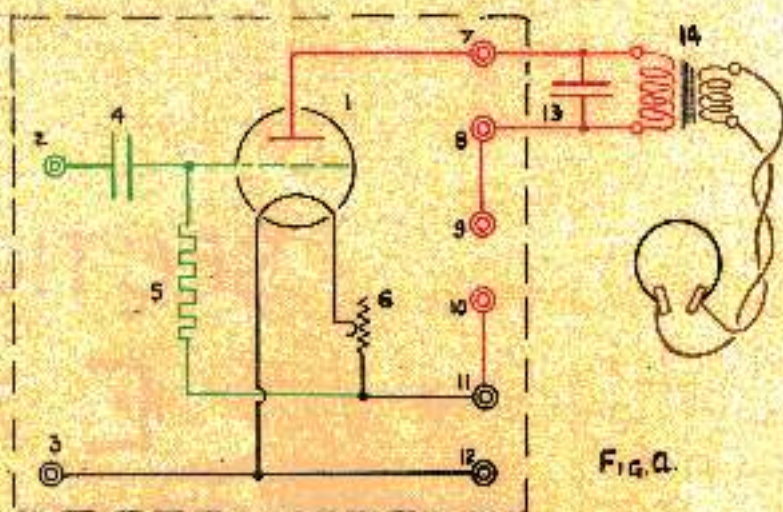


FIG. A.

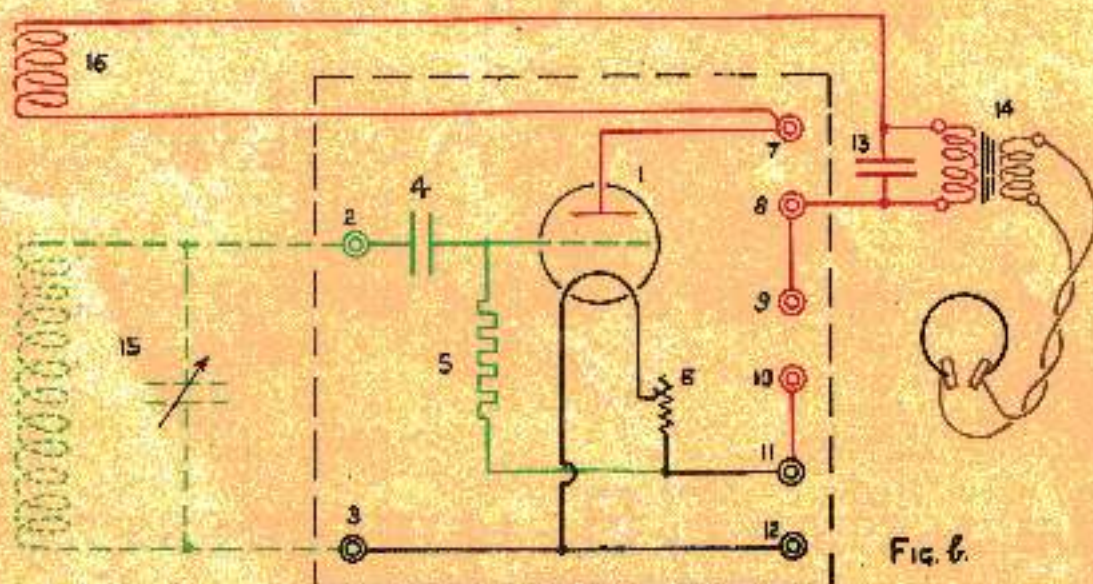


FIG. B.

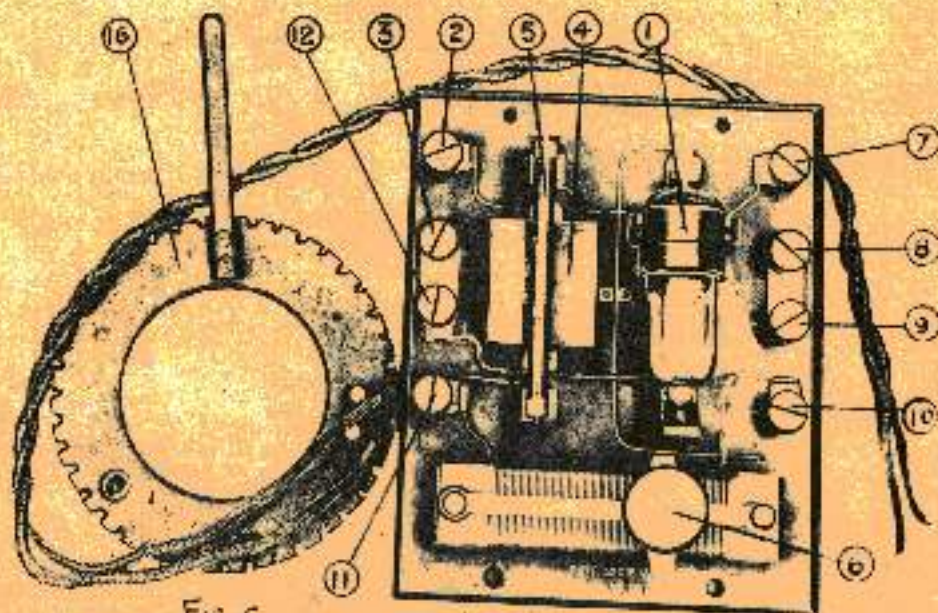


FIG. C.