

## A New Miniature Telephone.

A NOVELTY which has rapidly gained wide popularity both as an amusing and instructive toy for children and an article having a definite field of useful application is the G.E.C. new miniature telephone. This instrument possesses many attractive features and was one of the outstanding exhibits at the Olympia section of this year's British Industries Fair.

In appearance the miniature telephone is a replica of the standard **GEOPHONE** public service type. It is built on similar lines from high quality Bakelite mouldings with exactly the same finish, and incorporates an efficient inset transmitter of the carbon granule type and an electro-magnetic receiver, also in the form of an inset. The handcombination consists of two moulded halves which, when secured together by three screws, clamp the transmitter and receiver insets in position.

The moulded Bakelite pedestal carries the usual type of cradle and includes a small buzzer and a spring controlled plunger for operating the switch contacts. For wiring purposes convenient screw terminals are provided. Compared with the standard model, the miniature telephone is about five-eighths full size.

In order to simplify operation and installa-

tion, and at the same time to give automatic calling in both directions between two instruments connected together, a four-wire circuit is employed. One of these wires serves as the common battery lead for the two telephones and can be cut at any convenient point for the insertion of an ordinary 2-cell 3-volt flashlamp battery for the operation of both ringing and speaking circuits. Upon removing the handcombination a continuous buzzer signal is given at the distant end and ceases when the call is answered. Calls may be made from either end and the length of the circuit may be extended up to a mile with suitable adjustment of the battery voltage.



G.E.C. Miniature Telephone.

A complete outfit of these miniature telephones consists of two instruments together with thirty-five feet of connecting wire, suitable for installation either in the nursery or for ordinary domestic use from room to room. The only accessory required is the flashlamp battery, which will, under average conditions, give about three months' service. Larger batteries may, of course, be employed if desired.

Excluding the battery, the pair of telephones complete with wire is marketed in Great Britain at 25/6d.