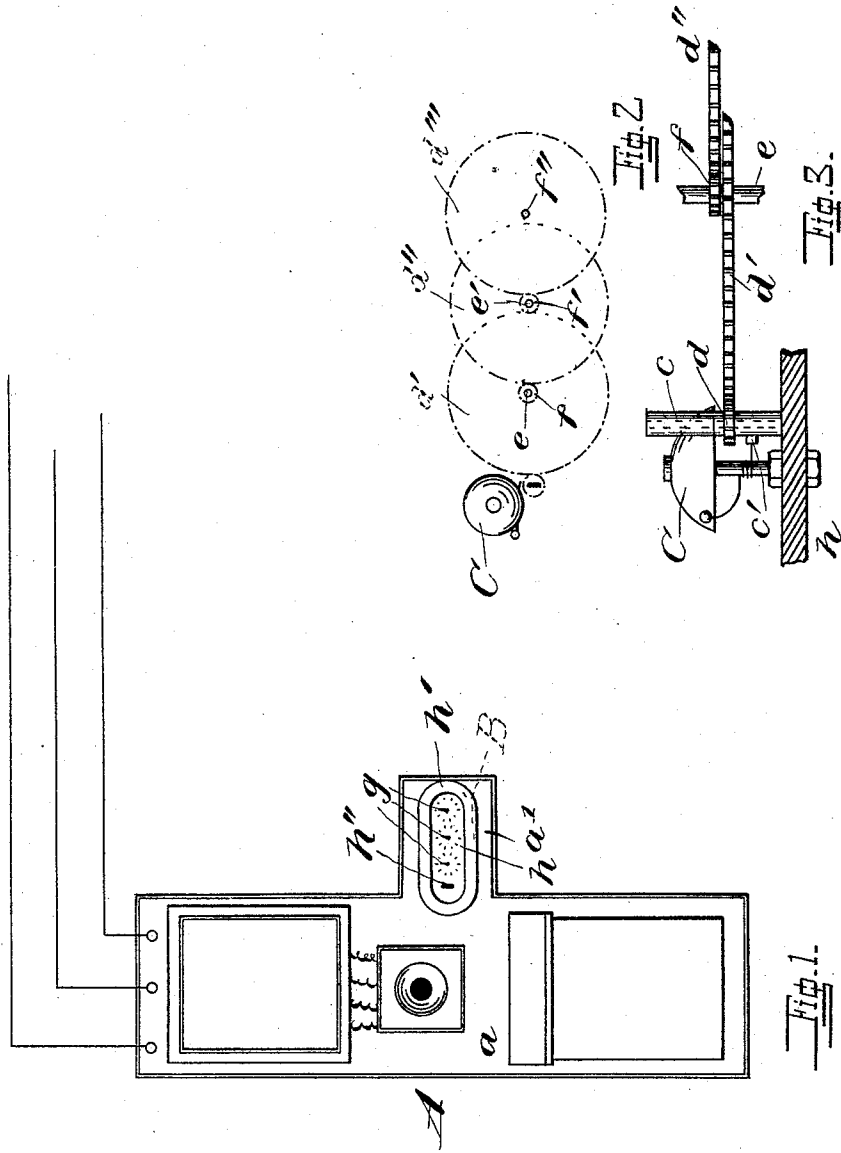


(No Model.)

W. T. GENTRY.
TELEPHONE CALL REGISTER.

No. 527,759.

Patented Oct. 16, 1894.



WITNESSES.
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UNITED STATES PATENT OFFICE.

WILLIAM THOMAS GENTRY, OF ATLANTA, GEORGIA.

TELEPHONE-CALL REGISTER.

SPECIFICATION forming part of Letters Patent No. 527,759, dated October 16, 1894.

Application filed April 20, 1894. Serial No. 508,330. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM THOMAS GENTRY, a citizen of the United States of America, and a resident of Atlanta, in the county of
5 Fulton and State of Georgia, have made certain new and useful Improvements in Telephone-Registers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others
10 skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

15 The invention is illustrated in the drawings as follows.

Figure 1 is an elevation of a telephone with this device attached thereto, showing however only a face view of the device. Fig. 2 is a
20 detail somewhat diagrammatical of the mechanism of the device. Fig. 3 is a side elevation of a portion thereof, showing the construction further.

In the figures like reference marks indicate
25 corresponding parts in all the views.

A is the telephone, *a* indicating the base or wall-board thereof, and *a'* a projection thereof, either integral or attached thereto. A suitable casing B is secured to the projection *a'*
30 and within this casing is arranged a bell and striking device therefor, together with a train of registering wheels, as will now be described.

C is the bell which is mounted on a standard screwed preferably into the base *a'*, and
35 near same suitably journaled in the base is a tumbler *c* adapted to receive a key of the desired pattern, and having on its side an arm *c'*. A clapper *c''* is mounted so as to ring the bell when released and has an arm
40 projecting to within reach of the arm *c'* so that said bell will be rung upon each revolution of the tumbler. This bell may obviously be electrically operated and the arm *c'* would then operate a circuit maker. A gear *d* on
45 this tumbler meshes with a gear *d'* on the pivot *e* which pivot carries a pinion *f* engaging in turn the gear *d''* on a pivot *e e'* which in turn has a pinion *f'* which meshes with the gear *d'''* on a pivot *f''*. Each of these
50 pivots *f, f', and f''* is provided on its outer end with a pointer *g* and the train of gears

composed of the gears and pinions are proportioned ten to one, so that the first pointer registers from one to ten turns of the tumbler
55 on the dial *h*; the second pointer from ten turns to one hundred, while the remaining pointer registers up to one thousand turns. *h'* is a plate or cover for the casing and *h''* is a key-hole therein registering with the key-hole in the tumbler. 60

The operation of this device is as follows: The subscriber connects with the call wire or otherwise calls for the desired connection and is told by the operator to insert and turn
65 his key. He then inserts the same and by means thereof produces one revolution of the tumbler registering one thereby, after which he withdraws his key. As the key is turned the bell is rung and heard by the
70 operator at the central office, who knows that he has registered that conversation. If desired, the operator may first call the subscriber to whom the first named subscriber wishes to speak before directing the insertion of the key. 75

The object of this invention is to enable exchanges to charge a toll and so furnish such subscribers as use the telephone very little with an instrument at a comparatively low cost. It is also intended to operate this
80 device in connection with the Law system and magneto exchanges in the following described manner.

For Law-system exchanges the key will first be inserted and turned half-way around operating the cylinder which will be provided
85 with a circuit closing device which will close the call-wire circuit and allow the subscriber to give his order for connection to the operator, who can after receiving his order request him to turn the key the remainder of
90 one full revolution which will sound the gong which may as before stated be either sounded mechanically or electrically, and leave the call wire open or disconnected again. 95

For magneto-system exchanges, the ringing or generator circuit is normally left open and closed by a switch operated by inserting the key and turning the tumbler one-half revolution. After this the central office should be
100 called by ringing and after the operator's response thereto the cylinder is revolved the

remaining half-turn necessary to complete one turn; the ringing or generator circuit being thereby broken.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the telephone station instrument, of a tumbler adapted to receive a key and having connection with a sounder and adapted, by its rotation, to operate same, and a counting train and dials, said train connected with said tumbler, for the purpose specified.

2. The combination with the telephone sta-

tion instrument of a tumbler adapted to receive a key and having connection with a sounder, set upon the base-board of the instrument, and adapted by its rotation to operate same, and a counting train connected revolubly with said tumbler, for the purpose specified.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

WILLIAM THOMAS GENTRY.

Witnesses:

A. P. WOOD,
EDWD. P. WOOD.