

M. M. WENTWORTH.
 TELEPHONE ATTACHMENT.
 APPLICATION FILED APR. 5, 1912.

1,032,638.

Patented July 16, 1912.

2 SHEETS—SHEET 1.

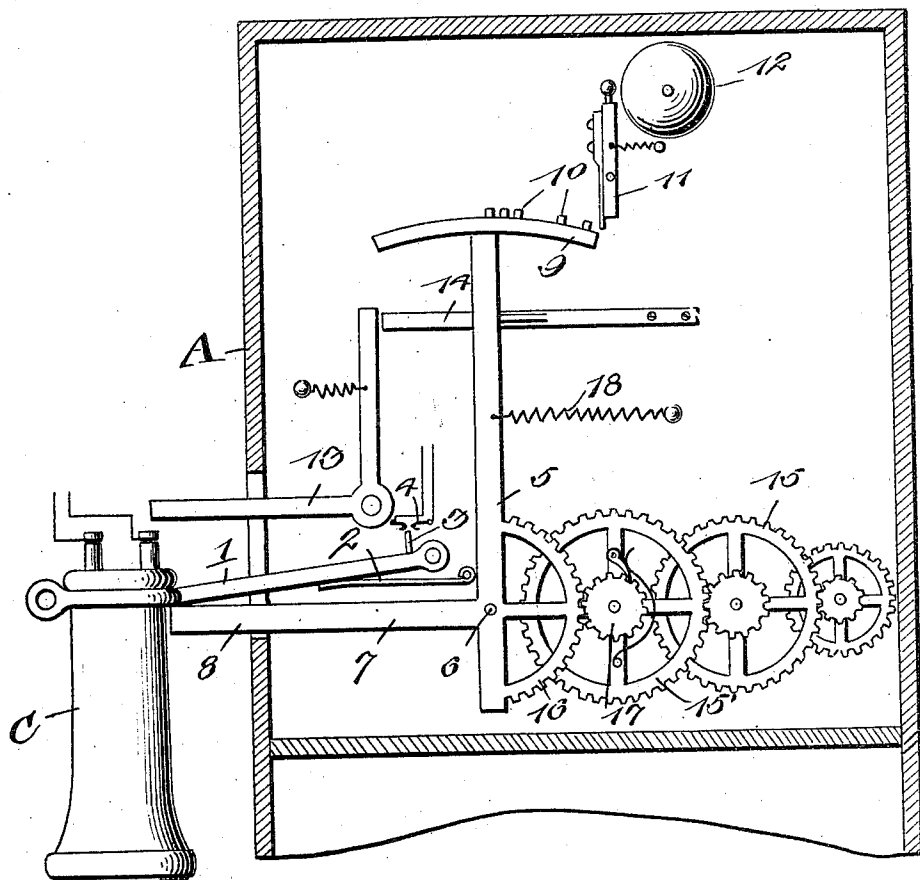


Fig. 1.

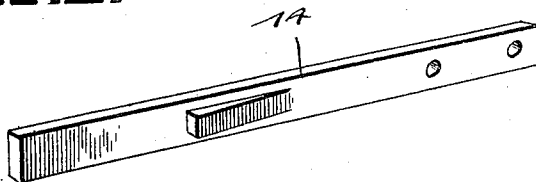


Fig. 2.

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Witnesses

Chas. L. Grishauer.
 A. B. Norton.

By

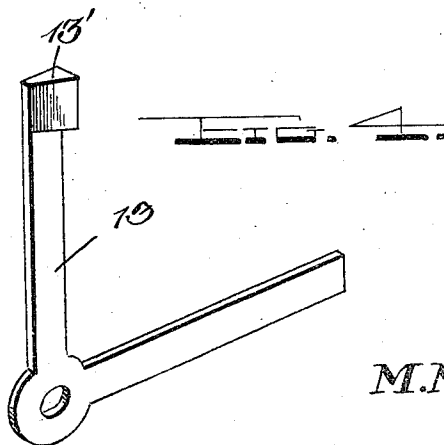
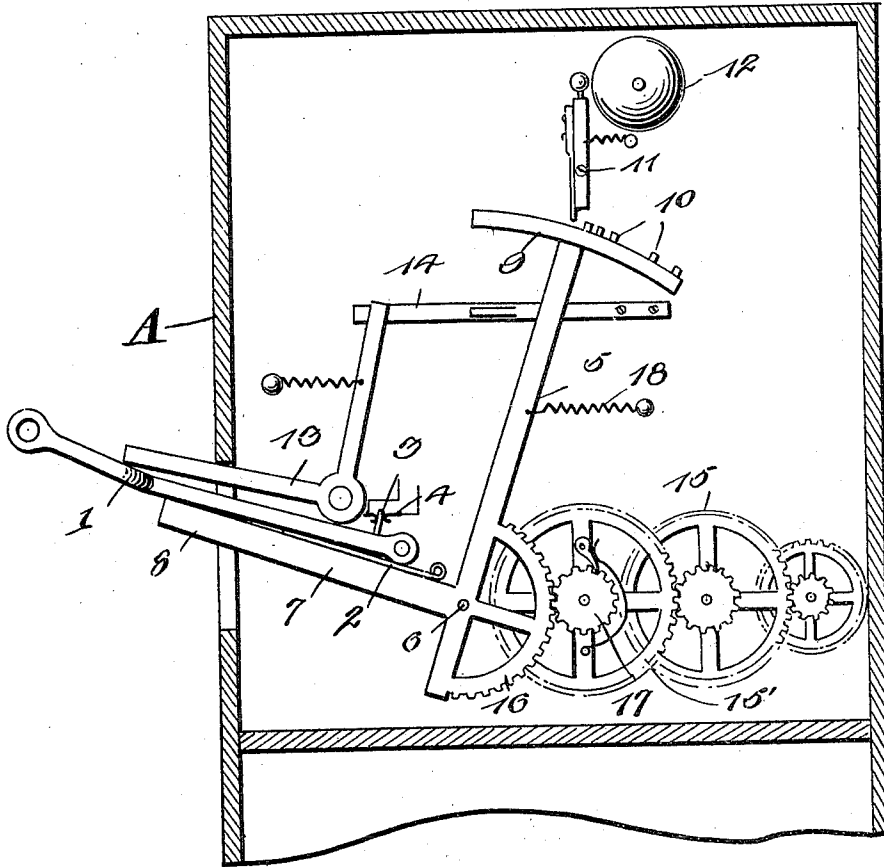
Watson E. Coleman,
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Witnesses

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UNITED STATES PATENT OFFICE.

MAYNARD M. WENTWORTH, OF EAST DENMARK, MAINE.

TELEPHONE ATTACHMENT.

1,032,638.

Specification of Letters Patent.

Patented July 16, 1912.

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To all whom it may concern:

Be it known that I, MAYNARD M. WENTWORTH, a citizen of the United States, residing at East Denmark, in the county of Oxford and State of Maine, have invented certain new and useful Improvements in Telephone Attachments, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to new and useful improvements in telephone circuits and more particularly to a device for protecting a third party on the telephone circuit.

15 The main object of my invention is to provide a signal which will indicate to the person using any one of the telephones on a telephone circuit the presence of an auditor at any telephone on that circuit.

20 A further object of the invention is to indicate to the person using any one of the telephones of a telephone system the number of the telephone answering his call, thereby detecting whether or not the right telephone has responded.

25 A further object of the invention is to provide a device of this character which will possess advantages in points of efficiency and durability is inexpensive of manufacture and at the same time is simple in construction and operation.

30 With the above and other objects in view this invention consists in the novel features of construction and in the combination and arrangement of parts, hereinafter more fully described, pointed out in the claims and shown in the accompanying drawings, in which,

35 Figure 1 is a front elevation of an attachment for telephones constructed in accordance with this invention, the front of the casing of the device being removed to show the interior, the device being shown in its operative position. Fig. 2 is a similar view showing the device in its inoperative position, Fig. 3 is a detail perspective view of the catch member, and Fig. 4 is a detail perspective view of the releasing lever.

45 The device has here been shown as applied to an ordinary telephone of the wall or box type such as indicated by the letter A. This telephone is equipped with the usual receiver C, of ordinary and well known construction.

50 The numeral 1 indicates a usual telephone receiver fork which is adapted to be raised by the spring 2 when the receiver is removed from the fork. This telephone fork

is provided with the contact closing block 3, arranged to close the usual line contact 4. Mounted in the casing is a vertically disposed lever 5 which is pivotally secured at one of its lower ends as indicated at 6 and adapted to swing in the arc of a circle. An angularly disposed arm 7 is formed integral with the lever 5 adjacent the lower end thereof, the outer end of said arm extending outwardly beyond the outer wall of the casing as indicated at 8. An arcuate bar 9 is secured to the upper end of the lever 5 and provided on its upper face with a plurality of spaced lugs 10 which are adapted to engage the lower end of the spring actuated bell clapper 11 so that the bell 12 will be sounded at long or short intervals as desired. 60 65 70 75

An angular releasing lever 13 is pivotally secured within the casing, the outer end of the horizontal portion of the lever extending outwardly beyond the outer wall of the casing and arranged directly above the receiver fork 1. The vertical portion of the lever 13 is provided at its upper end with a beveled face 13' which is adapted to engage with the catch member 14 to disengage the same from the lever 5 when the receiver is removed from the fork 1. A train of gears 15 is mounted in the lower end of the casing adapted to engage with the arcuate gear member 16 formed on the lower end of the lever 5 and thus prevent too rapid operation of the bell clapper 11, so that the ringing of the bell will be sounded clearly and distinctly. The gear 15' is provided with a ratchet member 17 which engages with the arcuate gear 16 so that when the lever 5 is thrown into its operative position as shown in Fig. 1 the gears 15 will remain stationary so that they will not be stripped by the quick turning movement of the arcuate gear 16. 80 85 90 95 100

From the foregoing description it will be seen that when the receiver C is placed upon the fork 1, the fork will be brought downwardly to rest upon the arm 7, the weight of the receiver will tend to swing the lever 5 to its operative position as shown in Fig. 1, the catch member 14 engaging the inner side of the lever to hold the same in its operative position. When the receiver is removed from the fork 1 the spring 2 will force the fork upwardly, said fork engaging the horizontal portion of the lever 13 forcing the same upwardly so that the upper end of the vertical portion will engage with the 105 110

catch member 14 and release the same from the lever 5, the tension of the spring 18 pulling the lever 5 inwardly so as to alternately engage the lugs 10 with the lower end of the spring bell clapper 11 to sound the bell at various intervals.

From the above it will be readily seen that when two parties are engaged in conversation on a telephone circuit they will be quickly notified of the presence of a third party upon the circuit, and it will also be seen that when one party is calling another they will be notified of the presence of the party called and also whether or not the right party has responded to the call. In the drawings it will be seen that I have shown the lugs 10 so arranged that two long and three short sounds will be audible to the party calling notifying them that the right party has responded to their call.

While I have shown and described the preferred form of my invention it will be obvious that various changes in the details of construction and in the proportions may be resorted to for successfully carrying my invention into practice without sacrificing any of the novel features or departing from the scope thereof.

What I claim is:—

1. In a telephone attachment, the combination of a casing, a receiver fork, a vertically disposed lever arranged in said casing and pivotally secured near its lower end, means carried by the upper end of said lever for operating a signal, said lever being set for operation by the weight of the receiver when placed in the fork, means for releasing said lever when the receiver is raised from the fork and means for actuating said lever to operate the signal.

2. In a telephone attachment, the combination of a casing, a receiver fork, a vertically disposed lever arranged in said casing and pivotally secured near its lower end, an angularly disposed arm formed integral with said lever and projecting outwardly beyond the outer wall of the casing, means carried by the upper end of said lever for operating a signal, said lever being set for operation by the weight of the receiver upon the outer end of said arm when the receiver is placed in the fork, means for releasing said lever when the receiver is raised from the fork, and means for actuating said lever to operate the signal.

3. In a telephone attachment, the combination of a casing, a receiver fork, a vertically disposed lever arranged in said casing and pivotally secured at its lower end, an angularly disposed arm formed integral with said lever and extending outwardly beyond the outer wall of the casing, an arcuate bar carried by the upper end of

said lever, and means carried by said arcuate bar for operating a signal, said lever being set for operation by the weight of the receiver upon the outer end of said arm when the receiver is placed in the fork, means for releasing said lever when the receiver is raised from the fork and means for actuating said lever to operate the signal.

4. In a telephone attachment, the combination of a casing, a receiver fork, a vertically disposed lever arranged in said casing and pivotally secured near its lower end, an angularly disposed arm formed integral with said lever and projecting outwardly beyond the outer wall of the casing, an arcuate bar carried by the upper end of said lever, spaced lugs formed on the upper face of said bar and adapted to operate the signal, said lever being set for operation by the weight of the receiver upon the outer end of said arm when the receiver is placed in the fork, a catch member engaging said lever to hold the same in operative position, and means for releasing said catch member when the receiver is raised from the fork, and means for actuating the lever when the catch is released to operate the signal.

5. In a telephone attachment, the combination of a casing, a receiver fork, a vertically disposed lever arranged within said casing and pivotally secured near its lower end, an angularly disposed arm formed with said lever and projecting outwardly beyond the outer wall of said casing, an arcuate bar secured to the upper end of said lever, spaced lugs formed upon the outer face of said bar, a bell arranged within said casing, a spring actuated clapper adapted to be engaged by said lugs to sound the bell, said lever being set for operation by the weight of the receiver when the same is placed in the fork, a catch member engaging said lever to hold the same in its operative position, an angular releasing lever pivotally secured within the casing, having a beveled face formed upon the upper end of the vertical portion and adapted to engage said catch member, a horizontal portion being disposed above the receiver fork and adapted to be engaged by the same when the receiver is raised therefrom to actuate said arm and release the catch member, a coil spring secured to said lever and actuating the same whereby the spaced lugs will alternately engage the bell clapper and sound the bell at intervals.

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

MAYNARD M. WENTWORTH.

Witnesses:

MARY A. BERRY,

MAE B. INGALLS.