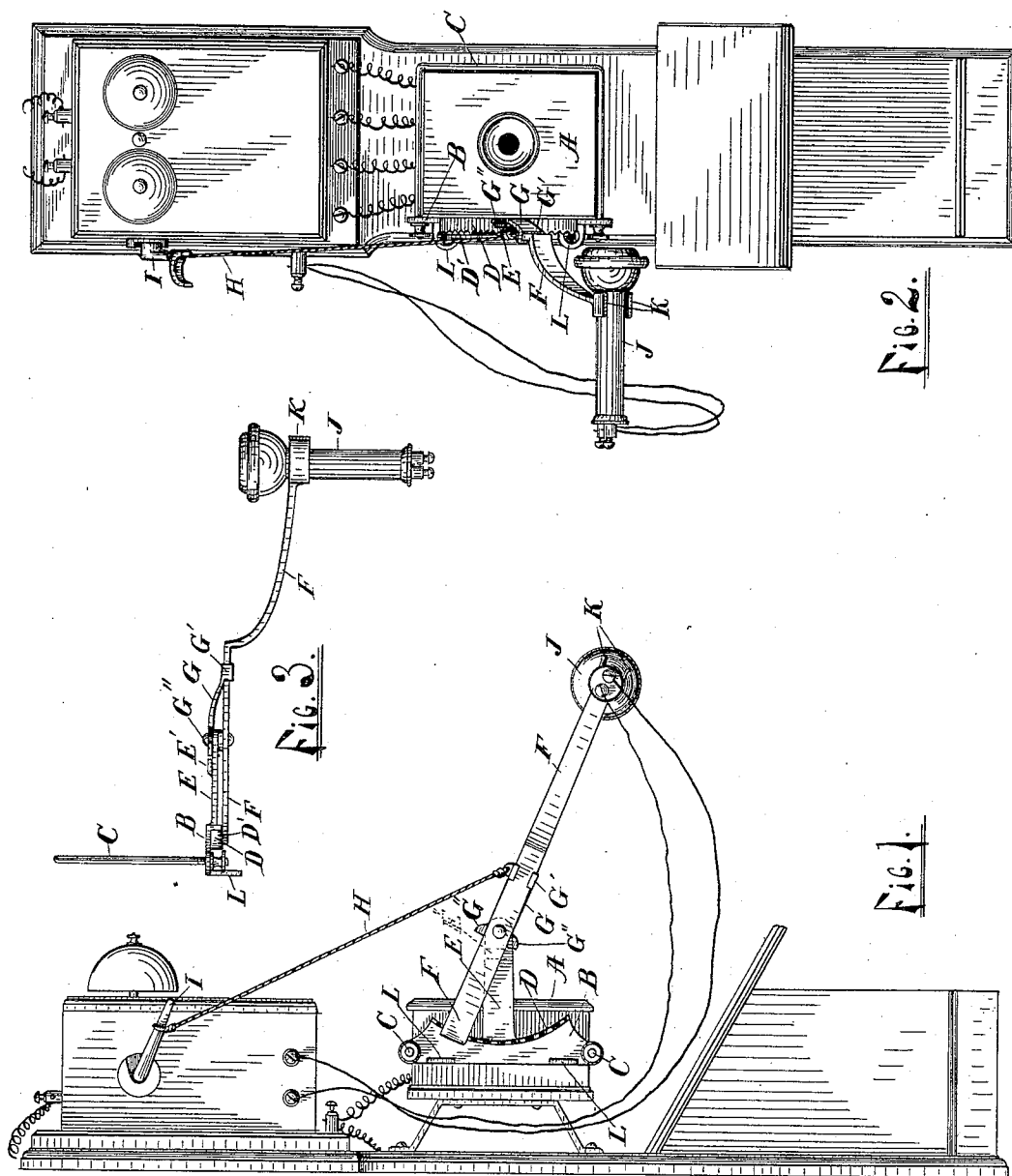


(No Model.)

R. DENT.
HOLDER FOR TELEPHONE RECEIVERS.

No. 467,160.

Patented Jan. 19, 1892.



WITNESSES:

Harry P. Van Wagner.
Clinton L. Dayton

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UNITED STATES PATENT OFFICE.

RICHARD DENT, OF GRAND RAPIDS, MICHIGAN.

HOLDER FOR TELEPHONE-RECEIVERS.

SPECIFICATION forming part of Letters Patent No. 467,160, dated January 19, 1892.

Application filed April 13, 1891. Serial No. 388,714. (No model.)

To all whom it may concern:

Be it known that I, RICHARD DENT, a citizen of Great Britain, residing at the city of Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Holders for Telephone-Receivers, of which the following is a specification.

This invention relates to a new and useful holder for telephones; and it consists in connecting with the telephone-transmitter a support or holder for the telephone-receiver, which may be raised or lowered, so as to cut off or let on the electric current and be held in position by means of teeth or cogs on a plate connected to said telephone-transmitter, which engage with teeth or cogs upon the telephone-holder, and which may be detached by lateral pressure on the outer end of the holder, as hereinafter more fully described.

The object of the invention is to avoid the necessity of pulling out a spring in detaching the connection between the telephone-holder and the toothed plate and enabling the user to disconnect by slight pressure either upon the telephone-receiver or upon the arm or holder which supports it. This object I accomplish by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation showing the telephone-holder let down in position to cut off the current. Fig. 2 is a front elevation of a telephone, showing the telephone-holder in the same position as in Fig. 1; and Fig. 3 shows the telephone-holder with the telephone-receiver therein detached, showing an edge view of the holder and its connection with its support and also showing an edge view of the rod which attaches the telephone-holder to the telephone-receiver box.

Similar letters refer to similar parts throughout the several views.

A represents the front plate or cover of the telephone-transmitter.

B shows a plate attached to the telephone-transmitter box and provided with teeth, (shown by D.)

C is a rod extending around the telephone-transmitter box and attached thereto by suitable nuts. The rod C is in the form of a sta-

ple bent at right angles and passes through lugs on the plate B. The position of the connecting-rod C, surrounding the telephone-transmitter box, is shown in Fig. 2.

E is an arm rigidly attached to the plate B and forms a support for the telephone-supporting lever F. The telephone-supporting lever F is pivoted intermediate its extremities to the stationary arm E, and the inner extremity of the lever F is provided with teeth D', which engage with the teeth D on the plate. The position of the engagement is shown by D D' in Fig. 3. The lever F is adapted to have a lateral motion, turning on the pivot which connects it with the stationary arm E. This is also shown in Fig. 2.

G is a spring, one end of which surrounds or engages with the supporting-lever F, as shown at G', and which is connected to the arm E by means of the pivot, which pivot is shown by T, said spring G having the function of holding the teeth D and D' in operative contact, except when the same are disengaged by pressure, as above described.

In order to prevent the swinging of the lever F out of engagement with the teeth, a stop may be provided which will limit the movement of said lever to a position within the arc of the circle covered by the teeth. This stop I have shown by E'.

G'' G'' are lugs or projections upon the lever F, which come in contact with the stop E.

I represents the electric cut-off or switch-arm, which is connected by means of a cord to the lever F.

J represents the telephone-receiver held in the loop or jaws K.

The telephone-holder is placed at such a position that it will have a considerable vertical swing, so that the operator, by raising the telephone-receiver and with it the arm, connects the electric current and at the same time places the receiver in such position that the operator can readily receive the message, the same being held in that position by means of the engagement of the teeth D and D', as above described.

In order to lower the holder, the operator exerts a lateral pressure upon the outer end of the lever F, disengaging the teeth D and D' and lowering the receiver into the posi-

tion shown in Figs. 1 and 2, the cord H drawing down the switch-arm I and cutting off the current.

In the drawings I have shown several parts of a telephone which are not lettered or described; but these parts are well known and do not differ from those in ordinary use.

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

1. In a telephone, the combination, with the transmitter-box and the switch-arm, of an arm E and a ratchet-plate D, both secured to the transmitter-box, the vertically-swinging and laterally-movable receiver-holding lever F, pivoted between its extremities to the said arm and having its inner extremity provided with teeth which engage and disengage the ratchet-plate by laterally swinging the lever, and a connection between the switch-arm of the transmitter-box and the lever, substantially as described.

2. In a telephone, the combination, with the

transmitter-box and the switch-arm, of a ratchet-plate D and a projecting arm E, both attached to the transmitter-box and the arm provided with a projecting stop E', a vertically-swinging and laterally-movable receiver-holding lever F, pivoted between its extremities and having its inner extremity provided with teeth which engage and disengage the ratchet-plate by laterally swinging the lever, a connection between the switch-arm of the transmitter-box and the lever, and a pair of lugs G'', arranged on the lever and co-operating with the stop on the projecting arm to limit the movement of the lever, substantially as described.

In witness whereof I have hereunto set my hand and seal in the presence of two witnesses.

RICHARD DENT. [L. S.]

Witnesses:

EDWARD TAGGART,
CLINTON L. DAYTON.