

A. H. WEISS.

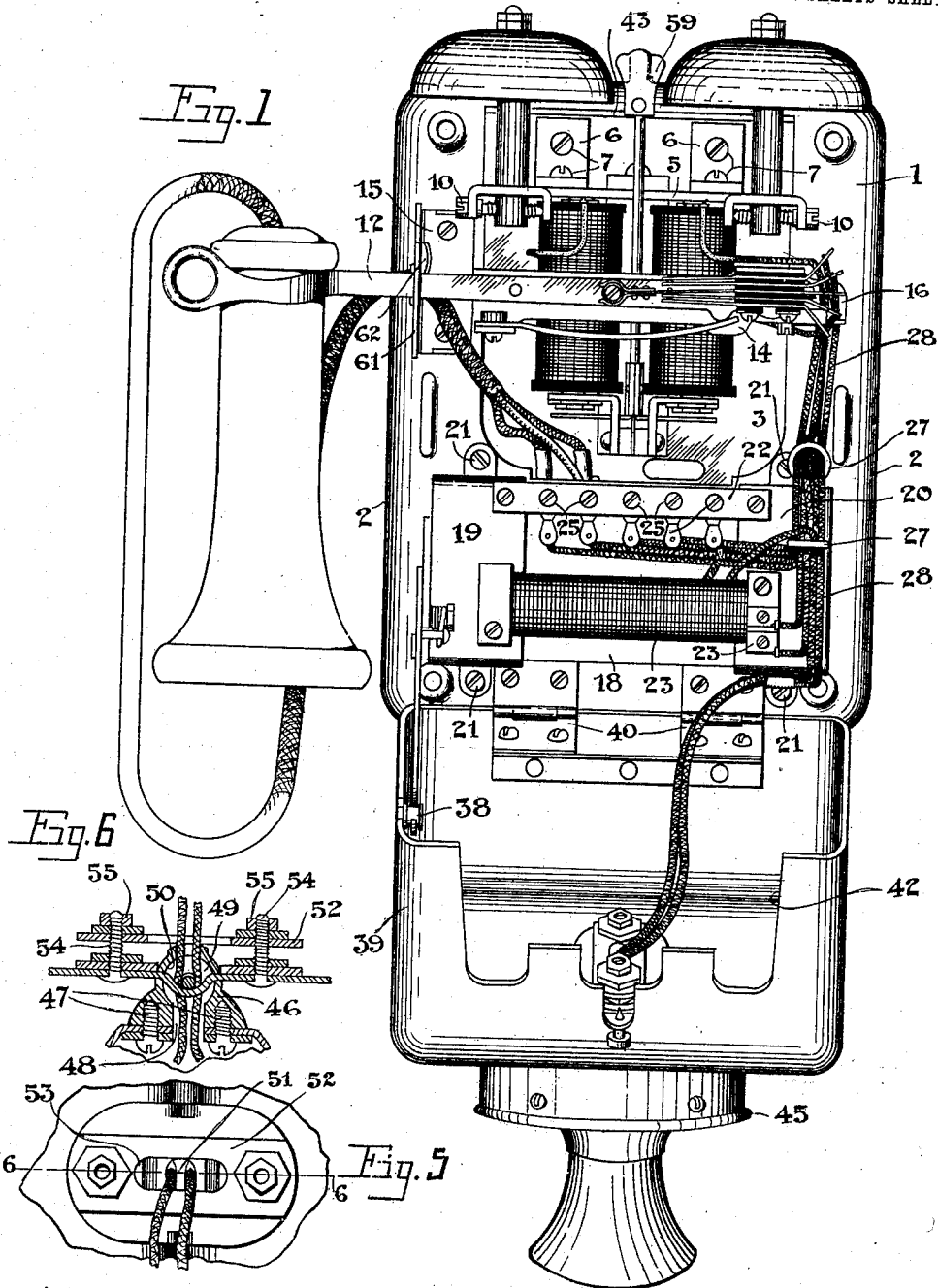
WALL SET.

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976,962.

Patented Nov. 29, 1910.

2 SHEETS—SHEET 1.



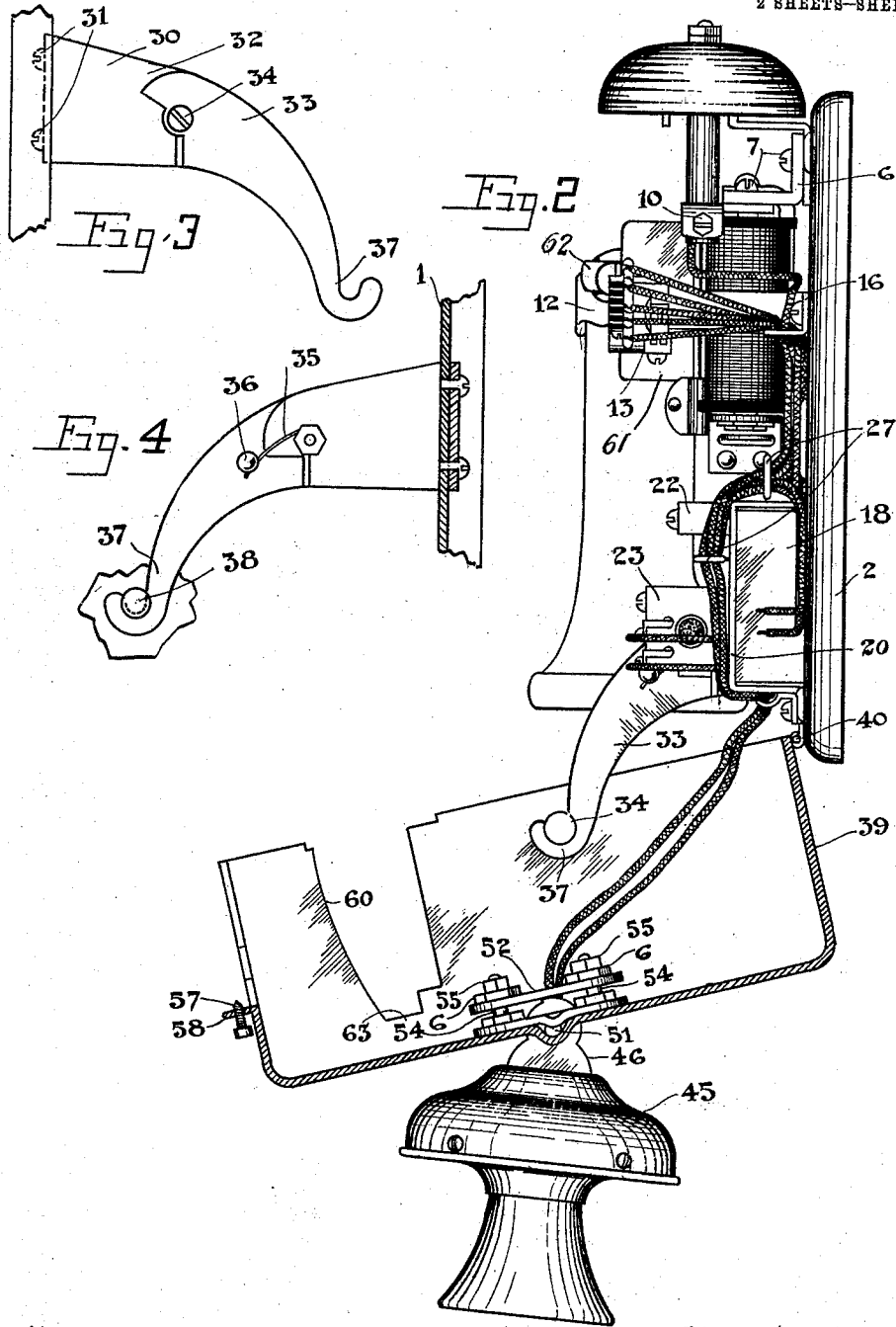
Witnesses
D. E. Keadley
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

ALFRED H. WEISS, OF CHICAGO, ILLINOIS, ASSIGNOR TO KELLOGG SWITCHBOARD AND SUPPLY COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

WALL SET.

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Specification of Letters Patent.

Patented Nov. 29, 1910.

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To all whom it may concern:

Be it known that I, ALFRED H. WEISS, a citizen of the United States, residing in Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Wall Sets, of which the following is a specification.

My invention relates to telephone wall sets of the type in which the apparatus is mounted in a pressed steel box, the said box being made as small as possible to contain the apparatus required.

It is the object of my invention to construct a box of such form that when the lid of the box is opened the apparatus will all be in an exposed position and the adjustable parts of the apparatus will be in a position readily accessible to the repair man.

A further object of my invention is to construct a box in which the parts are of such form that they are inexpensive to manufacture and simple to install and durable in their practical application.

A still further object of my invention is to so form the lid of the box that the portion back of the bell posts will be attached to the base of the box while a similar portion is cut away from the lid, so that when the lid is closed only sufficient opening will be left for the adjustment of the bell posts but when the lid is open the ringer parts will be exposed and the ringer as a whole will be readily removed.

Still further objects will be set forth in the following description and in the claims.

My invention is illustrated in the accompanying drawings in which—

Figure 1 is a front view of the box with the lid open; Fig. 2 is a side view of the box in the same position but with the lid shown in section; Figs. 3 and 4 are detail drawings of the retaining catch for the lid; Fig. 5 is a detail drawing of the transmitter supporting hinge, and Fig. 6 is a section on line 6—6 of Fig. 5.

In the embodiment of my invention the back plate 1 is preferably formed of pressed metal with the edges 2 turned rearwardly, the base proper thus being held a slight distance away from the wall by the flange 2 which forms the engagement with the wall. This plate 1 may be made of steel, the central portion being cut away and a brass plate 3 being secured over the opening, its purpose being to prevent the influence which

the steel back plate would have upon the magnetic circuit of the ringer.

The supporting plate 5 of the ringer frame is secured to the back plate 1 by means of the angle members 6, these members being secured by screws 7 which are readily accessible for removing or replacing the ringer. The screws 10 for adjusting the gongs of this ringer are exposed when the lid is open so that they may be readily adjusted either by means of a screw-driver or a wrench. The receiver hook 12 is supported upon the pivot 13 shown in Fig. 2, said pivot being secured to the frame 14 and said frame being secured to the plate 1 at the points 15 and 16, in position to span the coils of the ringer. The condenser 18 is tightly held against the back plate 1 by means of the bridges 19 and 20, these bridges being secured to the back plate by the screws 21 and forming the support for the terminal racks 22 and for the impedance or induction coil 23. This terminal rack is preferably made of fiber or vulcanite and has the terminal binding posts 25 secured therein, three of these posts being for the line terminals and two for the receiver terminals. The connecting screws for these posts are mounted in position to be readily accessible when the box is open.

The rings or eyelets 27 are arranged in the proper position to form guides for the connecting wires 28, these eyelets being large enough that the wires may be singly removed for repairs or alteration of the circuit arrangement.

The lid-retaining catch 30, shown particularly in Figs. 3 and 4, is secured to the back plate 1 by screws 31. This catch is formed of two members 32 and 33 pivoted together at the point 34 and adapted to be normally held in a closed or folded position by the spring 35 which is coiled about the pivot 34 and engages the stud 36. The end of the catch which engages the lid is provided with the hook 37 adapted to engage the stud 38 which is secured to the side wall of the box cover.

The movable box cover 39 is secured to the back plate 1 by the hinges 40, these hinges being so mounted that the edge of the box nearest the hinge will swing free from the back plate when the box is open, so that the japan or other finish will not be marred. As before described, the top of the

lid of the box is cut away at the point 42, a similar portion 43 being secured to the back plate 1 to complete the inclosure when the cover is in its closed position. This arrangement permits the ringer to be permanently mounted against the back plate and at the same time furnishes a complete inclosure for the parts when the cover of the box is in its closed position.

- 10 The transmitter 45 is the only piece of apparatus secured to the cover and the parts of the transmitter are completely accessible from the front of the box without opening the cover. This transmitter is pivotally secured to the cover so that it can be moved to a position to suit the subscriber. The details of this pivotal connection are shown in Figs. 5 and 6. The lug 46 which is secured to the transmitter casing by screws 47 has transverse openings therethrough, the opening 48 having the wires therein which lead to the electrodes of the transmitter and the opening 49 having the pivot therein about which the transmitter is adapted to be tilted.
- 25 The pivot 50 has a neck portion 51 about the sides of which the wires leading to the transmitter pass. In order to provide the proper amount of friction to the joint the plate 52 having the opening 53 therein is secured to the front of the box by screws 54 and the nuts 55. This plate 52 is preferably made of spring steel and the nuts may be tightened to give any desired friction to the movement of the transmitter.
- 35 The lid of the box is preferably held in its closed position by the screw 57 passing through the projection 58 and threading into the forward portion of the tapper protector 59, this tapper protector being preferably an integral part of the plate 43 which forms a portion of the top of the box.

- The receiver hook 12 extends out of the box at a position substantially half way between the rear and front planes and in order that this will not interfere with the opening and closing of the cover the side wall thereof adjacent the switch hook is cut away as shown at 60. A thin spring plate 61 is fastened to the rear plate in position to cover the opening 60 when the cover is in normal position. This spring plate has a slot therein through which the receiver hook extends, the ends of this slot forming the abutments which limit the upper and lower strokes of the receiver hook. This plate has the inwardly turned lip 62 which engages the portion 63 of the cover so that the spring plate 61 which is slightly flexed outwardly to not scratch or rub the outside finish, is firmly held against the outside face of the cover when the latter is in normal position.

- While my invention is illustrated and described with respect to a specific combination of elements it is to be understood that I

do not wish to be unduly limited thereto, many changes being possible without departing from the spirit or scope of my invention.

I claim:

1. In a subscriber's telephone set, the combination with a base or wall plate, of a box-like cover hinged thereon and adapted when in a closed position to inclose the apparatus of the set, a ringer supported by and in front of the wall plate and having bell posts extending outside the top of the box, the portion of the cover back of said bell posts being rigidly secured to the wall plate and the movable cover being cut away at the top to register with the portion secured to the wall plate, substantially as described.

2. In a subscriber's telephone set, the combination with a wall plate, of a ringer mounted in an exposed position thereon and having adjustable bell posts, a removable cover for the apparatus of the set having the portion back of the bell posts cut away and having openings permitting the adjustment of the bell posts, and a stationary member back of said bell posts adapted to complete the inclosure when the cover is in place, whereby the ringer mechanism may be readily removed, substantially as described.

3. In a subscriber's set, the combination with a wall plate, of a box-like cover hinged thereto at the bottom of the wall plate, said cover carrying the transmitter and being adapted to be opened to expose the apparatus of the set from all sides for purposes of adjustment, an arm pivotally secured at one end to said wall plate and having a hook at its free end, said hook being adapted to automatically engage said cover to limit its downward movement, and adapted to be folded within the cover when the cover is closed, substantially as described.

4. In a telephone wall set, the combination with a back plate, of a ringer mounted thereon, bell-posts extending from the ringer parallel to but spaced from the back plate, a top wall back of the ringer posts and in front of the back plate and a box-like cover hinged to the back plate and adapted to open downwardly to expose the apparatus of the set from all sides, substantially as described.

5. In a subscriber's telephone set, the combination with a wall plate, of a box-like cover for the apparatus of the set hinged to the wall plate and adapted to be opened downwardly to expose the parts of the set from all sides, and a retaining member hinged to the back plate and provided with a hook adapted to automatically engage the cover to prevent it from being opened far enough to strike the wall, substantially as described.

6. In a subscriber's telephone set, the com-

5 bination with a back plate, of telephone ap-
 10 paratus secured thereto, a cover adapted to
 inclose the apparatus of the set, a receiver
 hook pivoted within the cover and extend-
 15 ing outwardly at the side of the set, a spring
 plate secured to the wall plate and having
 an opening therein through which the re-
 ceiver hook extends, the said box cover hav-
 ing an opening therein permitting the re-
 20 moval of the cover without the removal of
 the receiver hook, and a projection upon
 said spring plate adapted to engage the
 cover when the latter is closed to draw the
 spring plate firmly against the side of the
 25 cover, substantially as described.

7. In a subscriber's telephone set, the com-
 bination with a wall plate, of a condenser,
 a clasp at each end of said condenser to se-
 cure the same to the wall plate, a coil hav-
 20 ing its ends secured respectively to said
 clasps, and a terminal rack likewise hav-
 ing its ends respectively secured to said
 clasps, whereby the terminals of the coil
 and of the connecting rack are placed in a
 25 readily accessible position, substantially as
 described.

8. In a subscriber's telephone set, the com-
 bination with a back plate formed so as to
 engage the wall only at its periphery af-
 30 fording room for the connecting wires back
 of the box, of a ringer secured to the back
 plate and extending wholly in front thereof,
 whereby its adjustable parts are in posi-
 tion to be readily accessible without the re-
 35 moval of any of the apparatus from the
 set, an inclosing cover for said set, the

gongs of said ringer being outside of the
 cover of the set, a tapper for said ringer,
 and a portion of the cover of said set being
 40 formed up to include the tapper within the
 cover of said set, substantially as described.

9. In a subscriber's telephone set, the com-
 bination with a back plate, of a cover hinged
 thereto and adapted to inclose the apparatus
 of the set, a receiver hook pivoted within
 45 the cover and extending outwardly at the
 side of the set, a spring plate secured to the
 back plate and having an opening therein
 through which the receiver hook extends,
 the said box cover having an opening there-
 50 in permitting the removal of the cover with-
 out the removal of the receiver hook, and
 means to draw the spring plate firmly
 against the side of the cover when the cover
 is closed, substantially as described.

10. In a subscriber's telephone set, the
 combination with a wall plate, of a cover
 hinged thereto and adapted to open down-
 wardly, a retaining catch pivotally secured
 60 to the back plate adapted at its other end to
 engage the cover to limit the amount it may
 be opened, and a spring engaging said re-
 taining catch to hold the same within the
 cover when the cover is closed, substantially
 65 as described.

Signed by me at Chicago, county of Cook,
 and State of Illinois, in the presence of two
 witnesses.

ALFRED H. WEISS.

Witnesses:

C. C. BRADBURY,
 MARJORIE E. GRIER.