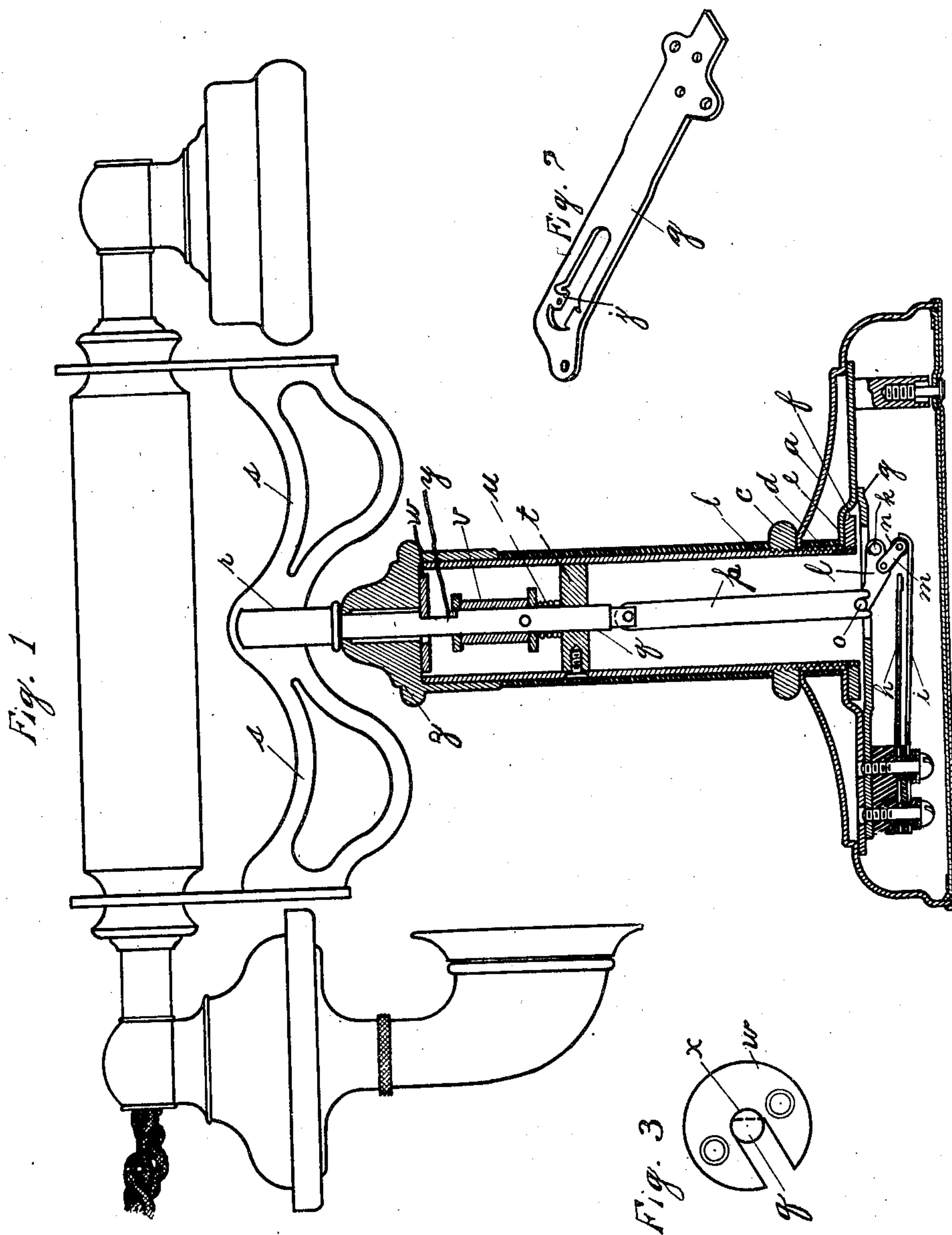


A. H. WEISS.
MICROPHONE DESK STAND.
APPLICATION FILED NOV. 26, 1906.

Patented Sept. 21, 1909.

934,865.



Witnesses
A. Dahl.
C. C. Bradbury

ALFRED H. WEISS
Inventor
By Curtis B. Lamp.
Attorney

UNITED STATES PATENT OFFICE.

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

MICROPHONE DESK-STAND.

934,865.

Specification of Letters Patent. Patented Sept. 21, 1909.

Application filed November 26, 1906. Serial No. 345,059.

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 Microphone Desk-Stands, of which the following is a specification.

My invention relates to microphone desk-stands of the character adapted to hold a telephone set, and by the weight of the set to control the contacts in the circuit thereof for cutting the set into and out of operative connection.

The object of my invention is to provide a stand which shall be simple in its operation, economic in its construction, and durable and efficient as an article of commercial use.

My invention further relates to the details of construction whereby a positive movement is imparted to the switch-springs by the movement of the supporting device, all of which will be hereinafter described and claimed, and which is illustrated in the accompanying drawing forming a part of this specification, and in which;

Figure 1 is an elevation partly in section of my device with the parts in the position which they assume when the telephone set is upon the support; Fig. 2 is a perspective drawing of the lever-supporting mechanism, and Fig. 3 is a detail showing the means for preventing the vertical operating rod from turning.

In carrying out my invention I provide the pressed metal base *a* through the circular opening in the top of which extends the metallic tubular portion *b* upon which is threaded the metallic ring *c* in such manner that the ring *c* rests upon the upper face of the pressed base portion *a*.

Immediately below the base portion and encircling the threaded portion of the stem *b* is placed a collar *d*, below which comes the apparatus mounting-plate *e*, the whole being held in firm position against the collar *c* by means of the nut *f* which threads upon the lower end of the tube *b*. Secured to this apparatus mounting plate *e* are the terminal-blocks, condenser and other devices, differing with the form of circuit with which the set is to be used, and the lever supporting plate *g* shown in Fig. 2, which has mounted thereon the contact-springs *h* and *i* which control the circuit of the telephone set.

The lever supporting plate *g* is provided with the downwardly extending lugs *j* between which the two parallel lever portions *l*, placed a short distance apart, are pivoted at *k* and have the spring-operating link *m* pivoted thereto at an intermediate point, this link having carried upon its lower end the insulating roller *n*.

The lever pieces *l* have the pin *o*, extended between their free ends, which is engaged by the link *p* for operating the lever. This link is secured at its upper end to the supporting shaft *q* which extends out at the top of the stand and terminates in an enlarged portion *r* into a slot of which the extending portion *s* is secured to carry the Y portions in which the set is supported.

The partition *t* is secured within the tube *b* to form a guide for the lower end of the vertical supporting shaft *q* and also to form a seat for the spring *u* which by its pressure upon the sleeve *v* keeps the shaft in its uppermost position when the telephone set is not supported thereon.

In order to prevent the shaft from turning the slotted washer *w* is placed about the shaft *q* in such manner that the flattened portion *x* shown in Fig. 3 rests against the face of the notch *y*, this washer being secured to the top or cap-piece *z* by screws or in any other suitable manner.

It will be seen that by this construction I multiply the pressure effect of the weight of the telephone set by the ratio of the lever arms of the lever *l* and thereby secure a very positive movement to the contact spring *i* which may by this arrangement be made comparatively heavy and stiff.

It will be understood that I have here shown and described my invention with relation to certain details, but that I do not wish to be unduly limited thereto, it being possible to carry out my purpose by the use of many variations from these details without departing from the spirit or scope of my invention.

What I claim as new and desire to secure by Letters Patent is:

1. A microphone desk stand having a vertically reciprocating rod, a telephone set directly supported by said rod in combination with switch-springs in the base of the stand, and mechanism for imparting a pressure upon such springs in excess of the pressure upon the reciprocating support and a link

connecting said rod and said mechanism, substantially as described.

2. A microphone desk stand having a vertically reciprocating set-supporting rod, in combination with a link carried upon the lower end of said rod, switch-springs mounted in the base of the stand, and means to impart a pressure upon such springs in excess of the pressure upon the reciprocating support, substantially as described.

3. A microphone desk stand having a vertically reciprocating set-supporting rod, in combination with switch-springs mounted in the base of the stand, a pair of links, one connected with the lower end of the reciprocating supporting rod and the other with the switch-springs, and lever-mechanism between such links, whereby pressure is imparted upon the springs in excess of the pressure upon the reciprocating support, substantially as described.

4. A microphone desk stand, having a vertically reciprocating set-supporting rod, in combination with switch-springs in the base of the stand, a link carried upon the lower end of the reciprocating rod, a pivoted lever having its free end connected with the lower end of said link, and a link connecting the switch-spring with an intermediate point on said lever, substantially as and for the purpose set forth.

5. A microphone desk stand having a vertically reciprocating set-supporting rod, in combination with switch-springs in the base of the stand, a link pivoted upon the lower end of the supporting-rod, a pair of lever-strips engaged by the lower end of said link, and a second link mounted between said lever-strips and engaging the switch-springs, substantially as and for the purpose set forth.

6. A microphone desk stand having a vertically reciprocating set-supporting rod, in combination with switch-springs adapted to be actuated by the movement of said supporting rod, link and lever mechanism con-

necting the supporting rod and the springs, whereby pressure is imparted to said springs in excess of the pressure upon the reciprocating supporting rod, substantially as described.

7. A microphone desk stand having a vertically reciprocating set-supporting rod, switch springs in the base of the stand, a pivoted member for transmitting the motion of the supporting rod to the switch-springs, a link between said pivoted member and the rod and a second link between the pivoted member and the switch springs and a support for said pivoted member detachably secured within the base of the stand, substantially as described.

8. A microphone desk stand having a cylindrical set-supporting rod with a notch formed therein, in combination with a washer having a flattened portion engaging said notch to prevent the supporting rod from turning, and having a slot extending from the periphery of the washer to such flattened portion, whereby the washer may be readily assembled to its engaging position, substantially as described.

9. The combination with a microphone telephone set, of a supporting stand therefor comprising a hollow base, a tubular standard supported by the base, a set supporting rod extended within said tubular standard and adapted to be depressed by the weight of the microphone set, a slotted washer within the hollow portion of said standard, a portion of said slot engaging a flattened portion of said rod to prevent the rod from rotating, and switch springs in the base adapted to be actuated by the depression of said rod, substantially as described.

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

ALFRED H. WEISS.

Witnesses:

CLIFFORD C. BRADBURY,
EDITH F. GRIER.