

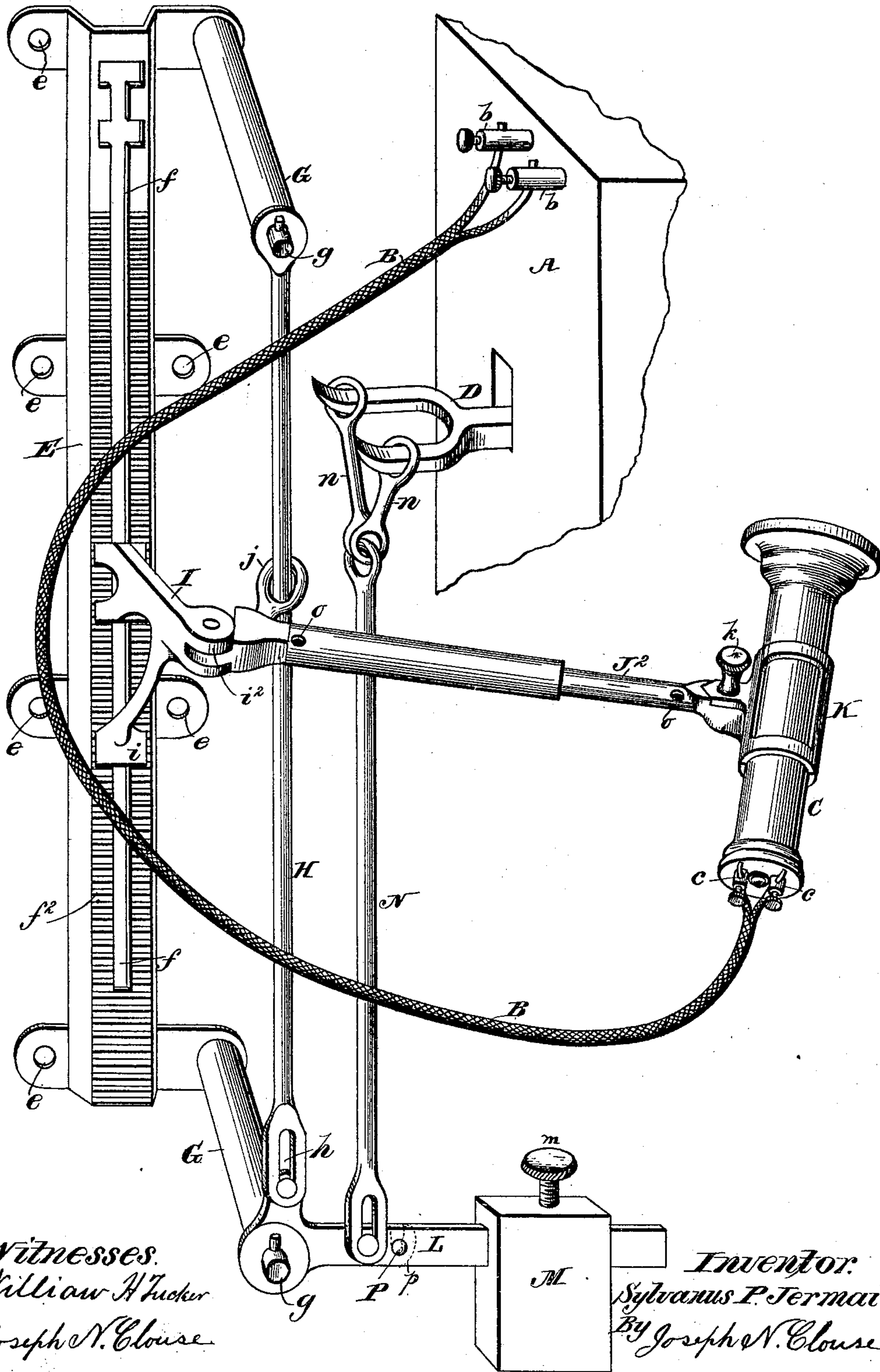
(No Model.)

S. P. JERMAIN.

ADJUSTABLE SUPPORT AND AUTOMATIC SWITCH FOR TELEPHONES.

No. 370,193.

Patented Sept. 20, 1887.



Witnesses.
William H. Tucker
Joseph N. Clouse

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UNITED STATES PATENT OFFICE.

SYLVANUS P. JERMAIN, OF TOLEDO, OHIO.

ADJUSTABLE SUPPORT AND AUTOMATIC SWITCH FOR TELEPHONES.

SPECIFICATION forming part of Letters Patent No. 370,193, dated September 20, 1887,

Application filed February 26, 1887. Serial No. 229,061. (No model.)

*To all whom it may concern:**

Be it known that I, SYLVANUS P. JERMAIN, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented new and useful Improvements in Adjustable Supports and Automatic Switches for Telephones, of which the following is a specification.

My invention relates to improvements in telephone attachments; and the objects of my improvements are, first, to provide a support for the telephone-receiver, so that it will remain with a gentle pressure against the ear of the operator, so that he may have the use of his hands; secondly, to make this support adjustable in every respect desirable; thirdly, to provide an automatic cut-off attachment that acts upon the cut-off arm whenever the ear-phone is moved in position for use, and, again, when it is released and not in use, it brings down the cut-off arm of the telephone. These objects I attain by the mechanism illustrated in the accompanying drawing, in which the drawing is a perspective view of the invention complete, showing the parts to which it is attached, from which the construction of all the parts is clearly seen and understood.

A represents a small broken section of a telephone-case, through which the binding-posts *b b* extend and hold the positive and negative pole wires, which, for convenience, are bound together, forming one cord, B B, to the other end of which is secured the ear-phone C by the binding-posts *c c*.

D is the cut-off arm extending out, all of which parts are common to the telephone.

E is a hollow bracket-holder provided with ears *e e*, with holes in them to secure it to a wall or other place desired. This bracket is provided with a slot, *f*, extending lengthwise of it, which terminates at its upper end in two enlarged openings, to admit the end of the arm I. The face of the bracket E is provided also with grooves or serrations *f*², which correspond to grooves or serrations in the foot *i* of the arm I. Two posts, G G, rise out of the hollow bracket E, to the upper one of which is pivoted a connecting-rod, H, at its upper end, the lower end of which is provided with a slot, *h*. To the lower post, G, is pivoted a rocking arm, L, having two branches, one stand-

ing upward, to which is pivoted the lower slotted end of the connecting-rod H. To the other branch, which extends out horizontally, a cut-off rod, N, is pivoted by a slot-opening, and a weight, M, is arranged to slide and fastened by a set-screw, *m*, and a hole, P, also provides for a stationary weight to be attached when desired. The cut-off rod N is provided at its upper end with two links, *n n*, which attach onto the cut-off arm D to operate it. The short arm I is also provided with a hinge-joint, *i*², by means of which it is connected to a long extension-arm, which consists of two sections, an outer tube, J, inside of which an inner tube, J², slides, which allows of an extension and a rotation, as desired. This inside tube, J², terminates in a clamp, K, with a set-screw, *k*, by means of which the ear-phone C is held firmly in position. From the side of the outer section, J, of the extension-arm, near the hinge-joint *i*², extends out a short arm with a loop, *j*, through which the connecting-rod H passes. The extension-arm is also provided with two holes, O O, through which the positive and negative pole wires B may be passed. The short arm I is provided with the front lugs, which stand in front of the hollow bracket-holder E, and work close up to the face *f*² of it, and also corresponding lugs that pass through the enlarged openings at the top of the slot *f* and work close against the back of the same plate. By this construction of the bracket E and the short arm I the extension-arm and the telephone-receiver can be raised or lowered at pleasure by raising the foot *i* a little off of the face *f*² of the bracket E.

When the device is not in use, the telephone-receiver is thrown by the weight M across the front of the telephone-case A, and draws the cut-off arm D down at the same time, and when the telephone-receiver is drawn back and placed in position against the ear of the operator the loop *j* draws back the connecting-rod H, which lifts the rocking arm L and the weight M and slackens the cut-off rod N, and allows the cut-off arm D to rise.

The weight M gives the telephone-receiver C a gentle pressure against the ear of the operator, which pressure may be increased or decreased by the adjustment of the weight M

on the arm L. In close places, where an adjustable weight cannot be used, I use a fixed weight attached by the hole P and cut the arm L off, as shown by the broken line *p*.

5 By this device all of the movements necessary to operate a telephone are made by the operation of placing the telephone-receiver to the ear or releasing it.

10 Having described the parts of my invention and the manner of operating it, what I claim as my invention, and desire to secure by Letters Patent, is—

1. In a telephone support and switch, the hollow bracket-holder E, provided with ears 15 *e e*, the slot *f*, with its upper enlargement, and the serrated or grooved face *f*², and posts G G, in combination with the arm I, having the foot *i*, the connecting-rod H, and the rocking arm L, bearing a weight, as and for the purpose set forth. 20

2. The hollow bracket-holder E, posts G G, connecting-rod H, and rocking arm L, in combination with the arm I, having front and back lugs, the foot *i*, hinge *i*², loop *j*, exten-

sion-arm J and J², and clamp K, with its screw 25 *k*, all substantially as described.

3. In a telephone support and switch, the combination of the bracket E, the top and bottom horizontal posts, G G, the vertical connecting-rod H, the rocking arm L, mounted 30 on the lower horizontal post, the weight carried by said rocking arm, the cut-off rod N, having links *n n*, and the bifurcated switch-hook D, as and for the purpose set forth.

4. The bracket E, connecting-rod H, rocking 35 arm L and weight, the cut-off rod N, links *n n*, the arm I, hinged to the extension-arm J and J², with its loop *j*, and clamp K and screw *k*, in combination with the ear-phone C, conducting-wires B-B, and cut-off arm D, substan- 40 tially as described and specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

SYLVANUS P. JERMAIN.

Witnesses:

WILLIAM H. TUCKER,
JOSEPH N. CLOUSE.