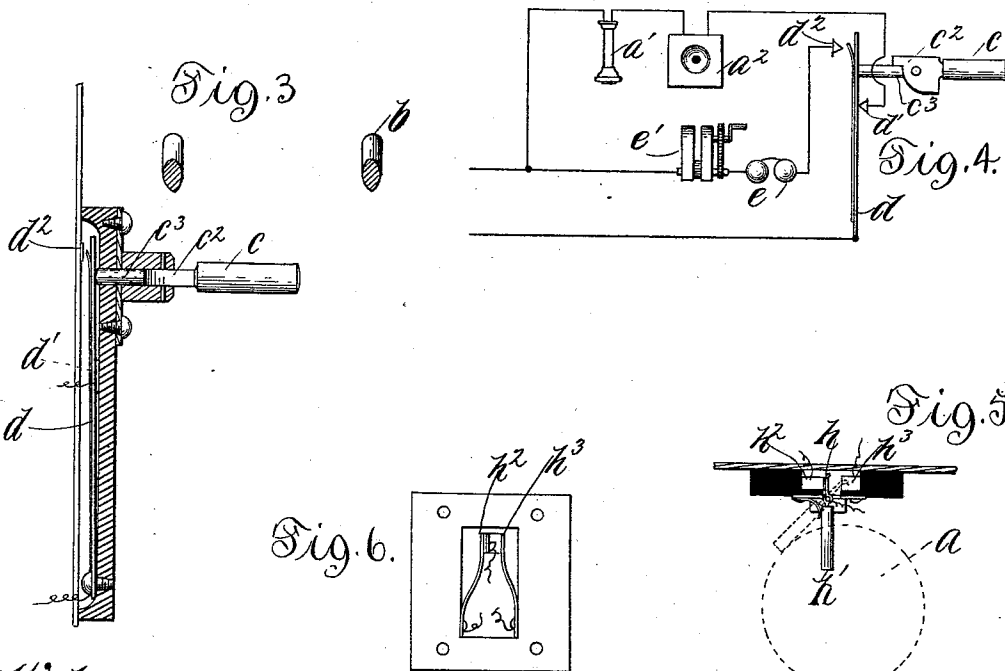
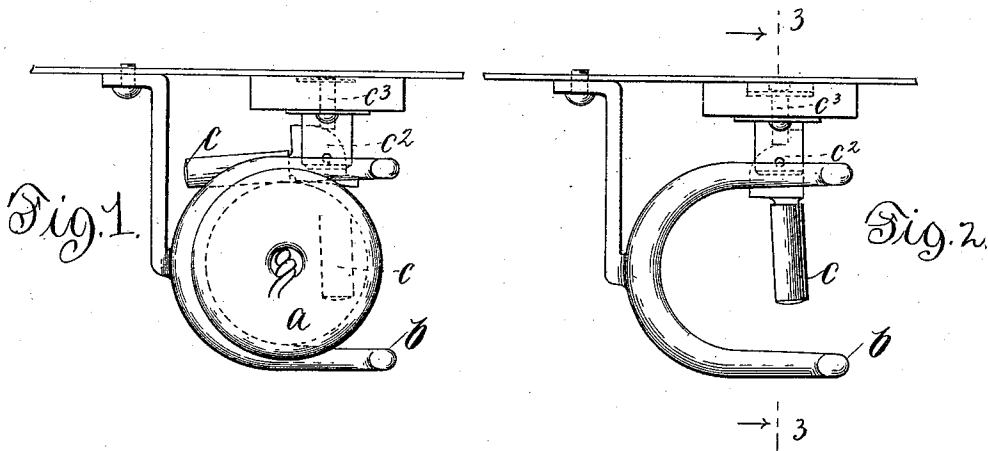


(No Model.)

A. STROMBERG & A. CARLSON.
TELEPHONE SWITCH.

No. 530,208.

Patented Dec. 4, 1894.



Witnesses:

George L. Bragg.
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UNITED STATES PATENT OFFICE.

ALFRED STROMBERG AND ANDROV CARLSON, OF CHICAGO, ILLINOIS.

TELEPHONE-SWITCH.

SPECIFICATION forming part of Letters Patent No. 530,208, dated December 4, 1894.

Application filed October 9, 1894. Serial No. 525,388. (No model.)

To all whom it may concern:

Be it known that we, ALFRED STROMBERG and ANDROV CARLSON, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Telephone-Switches, (Case No. 17,) of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

Our invention relates to a telephone switch, and its object is to provide improved means for automatically cutting the telephone from circuit when the telephone is hung up, and for automatically cutting it into circuit again when the telephone is removed from the hook.

Our invention, in its preferred form, comprises a stationary support upon which the telephone is hung when not in use, a pivoted lever being provided in the path of the telephone as it is placed upon the support, the pivoted lever controlling contact points to alter the electrical connection and switch the telephone apparatus into and out of circuit.

Referring to the accompanying drawings, Figure 1 is a plan view of a switch embodying our invention, the telephone being shown upon the support. Fig. 2 is a similar view showing the telephone removed from the support. Fig. 3 is a vertical sectional view on line 3--3 Fig. 2. Fig. 4 is a diagrammatic view of the circuit connections. Fig. 5 is a plan view of a modified form of switch. Fig. 6 is a view thereof on line 6--6 Fig. 5.

Like letters refer to like parts in the several figures.

The telephone *a* when not in use is hung upon a support *b*. The end of a lever *c* extends into the path of the telephone as it is placed upon the support, the lever occupying the position illustrated in Fig. 1 when the telephone is hung up. Upon the lever *c* is mounted a cam *c*² which engages one end of a plunger *c*³, the opposite end of the plunger being disposed opposite a spring *d* which normally rests against a contact terminal *d*¹. When the lever *c* is moved to the position shown in Fig. 1, by the placing of the telephone on its support, the cam *c*² thrusts the

plunger *c*³ inward and moves the spring *d* out of contact with the contact *d*¹ and into contact with contact *d*². When the telephone is removed from its support, the spring *d* reacts to move the plunger outward and return the lever *c* to the position shown in Fig. 2.

As shown in Fig. 4 the spring *d* may be connected to one side of the telephone line, the contact *d*¹ being connected through the telephone receiver *a*¹ and transmitter *a*² to the second side of the line, while the bell *e* and generator *e*¹ are connected between the contact *d*² and the second side of the line. When the telephone is off the support the telephone set is included in circuit and the bell and generator are cut out, while, when the telephone is on the support the bell and generator are in circuit and the telephone set is cut out.

In Figs. 5 and 6 is illustrated a modified construction in which the end *h*¹ of the pivoted lever *h* is adapted to alternately engage springs *h*² *h*³, the end *h* of the lever being connected to one side of the circuit while the springs *h*² *h*³ are connected respectively through the telephone apparatus and the calling apparatus to the second side of the line.

It will appear that our invention may be modified in form, but—

Having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In a telephone switch, the combination with a support comprising a hook provided with two limbs between and from which the telephone is adapted to be suspended, of a pivoted lever, the end thereof occupying a position between said limbs, whereby said lever will be rotated when the telephone is hung up, and contact terminals controlled by the rotation of said lever for opening and closing the circuits through the telephone apparatus, substantially as described.

In witness whereof we hereunto subscribe our names this 3d day of October, A. D. 1894.

ALFRED STROMBERG.
ANDROV CARLSON.

Witnesses:

W. CLYDE JONES,
HARRIET G. TEMPLETON.