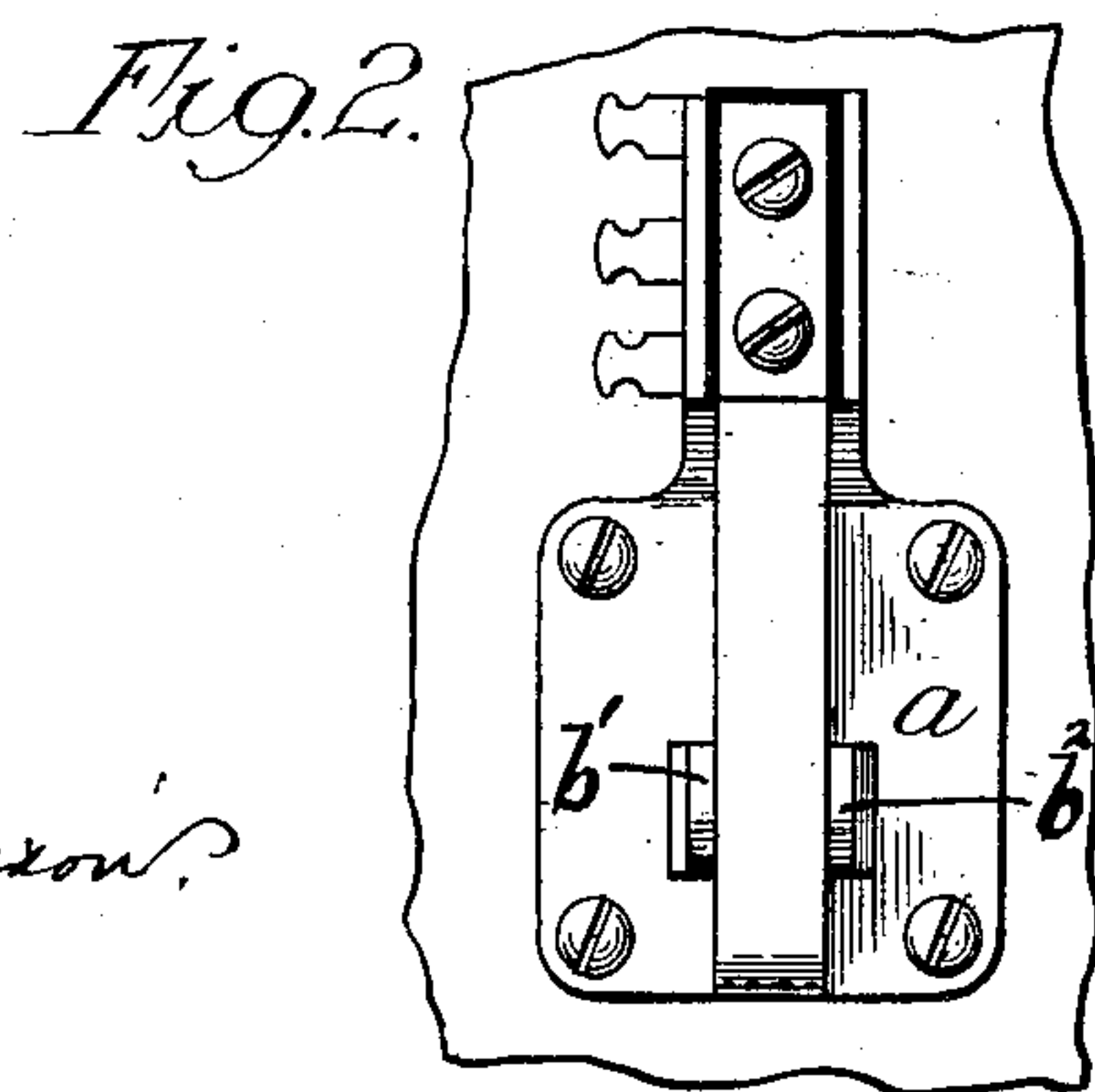
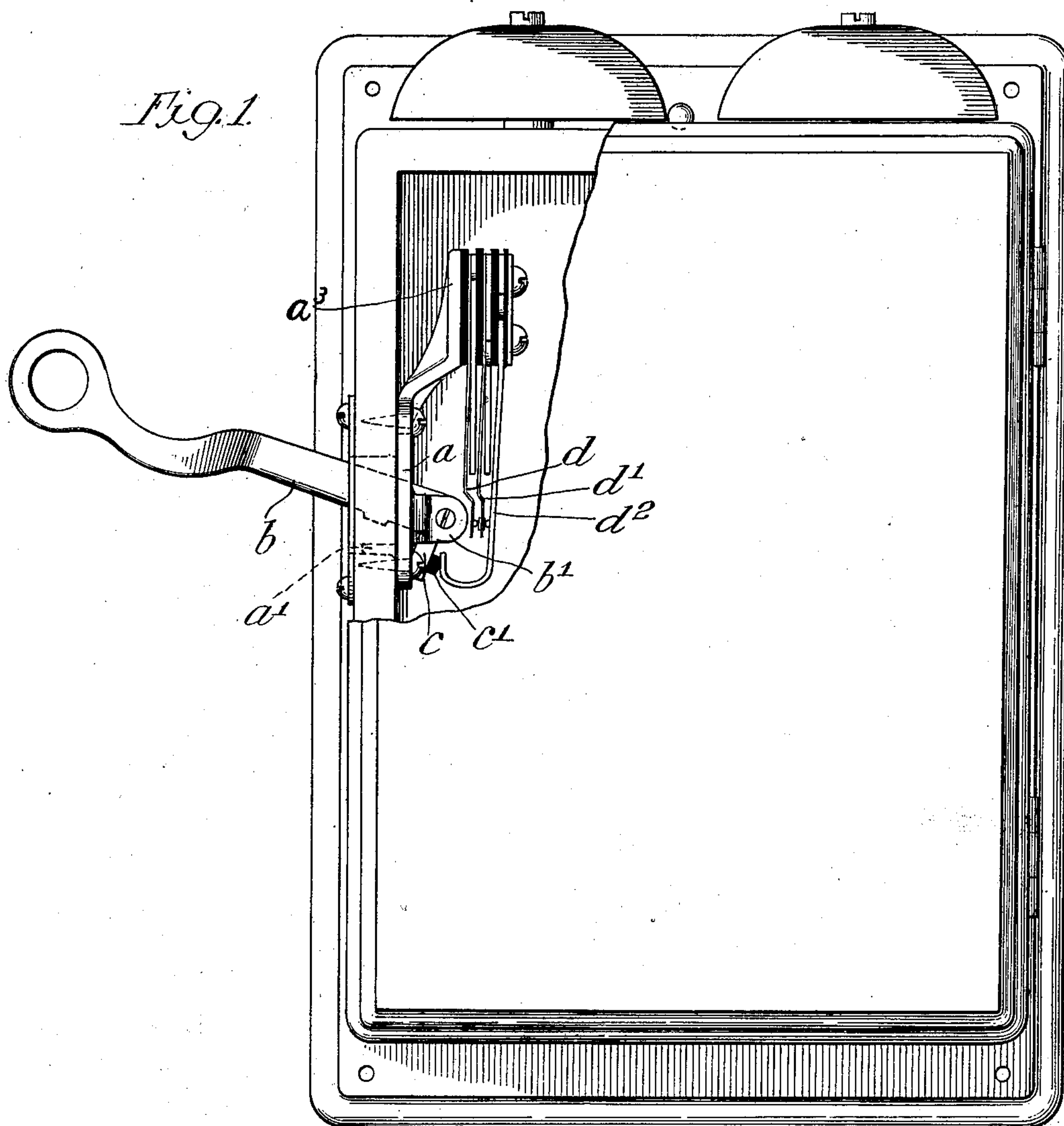


No. 862,449.

PATENTED AUG. 6, 1907.

E. B. CRAFT.  
HOOK SWITCH.

APPLICATION FILED APR. 9, 1906.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

EDWARD B. CRAFT, OF CHICAGO, ILLINOIS, ASSIGNOR TO WESTERN ELECTRIC COMPANY,  
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## HOOK-SWITCH.

No. 862,449.

Specification of Letters Patent.

Patented Aug. 6, 1907.

Application filed April 9, 1906. Serial No. 310,784.

*To all whom it may concern:*

Be it known that I, EDWARD B. CRAFT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain  
5 new and useful Improvement in Hook-Switches, of which the following is a full, clear, concise, and exact description.

My invention relates to a hook switch specially adapted for use in subscriber's sets at the substations of a telephone exchange, and its object is to provide  
10 a simple and compact device which will be efficient in operation and cheap to manufacture.

Generally speaking, my invention contemplates a hook switch comprising a mounting plate which supports upon its rear side a pivoted switch lever and  
15 switch springs adapted to be operated by said lever in its movement. The switch lever projects through an opening in said plate, the plate forming stops to limit the movement of the switch lever in both directions.

I will describe my invention more particularly by reference to the accompanying drawing, which illustrates the preferred embodiment thereof, reserving for the appended claims a statement of those parts, improvements and combinations which I deem novel  
20 with me.

In the drawings, Figure 1 is a front elevation of the containing case of a subscriber's telephone set, showing the same equipped with the hook switch embodying my invention; and Fig. 2 is a detail side elevation of  
30 the hook switch.

The same letters of reference are used to designate the same parts wherever shown.

The mounting plate *a* of the hook switch is secured to the inner side wall of the containing case of the subscriber's set shown, and supports at its rear side a pivoted switch lever *b* which projects through an opening in the mounting plate and an opening in the side wall of the containing case, the rear end of said switch lever being pivoted to lugs *b'*, *b''*, carried upon the rear of the  
40 mounting plate. The switch lever is adapted to hold the telephone of the set while the same is not in use. The switch lever carries at the rear of the mounting plate a depending finger *c*, which is adapted to abut against the mounting plate to limit the upward movement of the switch lever, and the bottom wall of the opening in the mounting plate is adapted to be engaged by the lever *b* to limit the downward movement thereof, said plate preferably carrying an outwardly projecting lug *a'* at the bottom of said opening, which  
50 assists in forming a stop for the lever.

The mounting plate carries switch springs *d*, *d'*, *d''*, which are adapted to be operated by the finger *c* of the switch lever in the movement of said lever, the said switch springs being insulated from each other and from the mounting plate, being preferably secured to an upward extension *a''* of the mounting plate, and extending downwardly into position to be operated by said finger. One of the contact springs, *d''*, projects beyond the remaining switch springs into engagement with the finger *c*, and is preferably of considerable strength to serve as a restoring spring for the switch lever, and said spring *d''*, when moved by the switch lever, operates the remaining switch springs *d*, *d'*. The switch spring *d''* is mounted outside the remaining switch springs *d*, *d'*, and constitutes a guard  
55 for the same, the free end of said spring being curved to engage an insulating button *c'* upon the finger *c*.

With the construction above described, I am enabled to make a hook switch which will be very compact, possess the minimum number of parts, and be efficient  
70 and reliable in operation.

I claim:

1. A hook switch comprising a mounting plate, a lug at the rear side of said plate, a lever pivotally secured to said lug and projecting through an opening in said plate, the bottom wall of said opening forming a stop for said lever to limit its movement in one direction, a downwardly-projecting finger carried by the lever behind the plate adapted to abut against said plate to form a stop for said lever to limit its movement in the opposite direction, and switch springs mounted upon said plate for operation by said finger.

2. A hook switch comprising a mounting plate, a lever pivotally supported upon the rear of said plate and projecting through an opening therein, a finger carried by said lever behind said plate, and switch springs supported upon the rear of said plate, one of said springs projecting beyond the remaining springs into position for operation by said finger to actuate said springs, said spring forming a restoring spring for said lever.

3. A hook switch comprising a mounting plate, a lever pivotally supported upon the rear of said plate and projecting through an opening therein, a depending finger carried by said lever behind said plate, switch springs supported upon the rear of said plate, the outer switch spring projecting beyond the remaining springs and having its free end curved to engage said finger and form a restoring spring for the lever, said finger being adapted to operate said spring to actuate the remaining switch springs.

In witness whereof, I, hereunto subscribe my name this  
4th day of April, A. D. 1906.

EDWARD B. CRAFT.

Witnesses:

RAY. T. ALLOWAY,  
BERT STARR YORK.