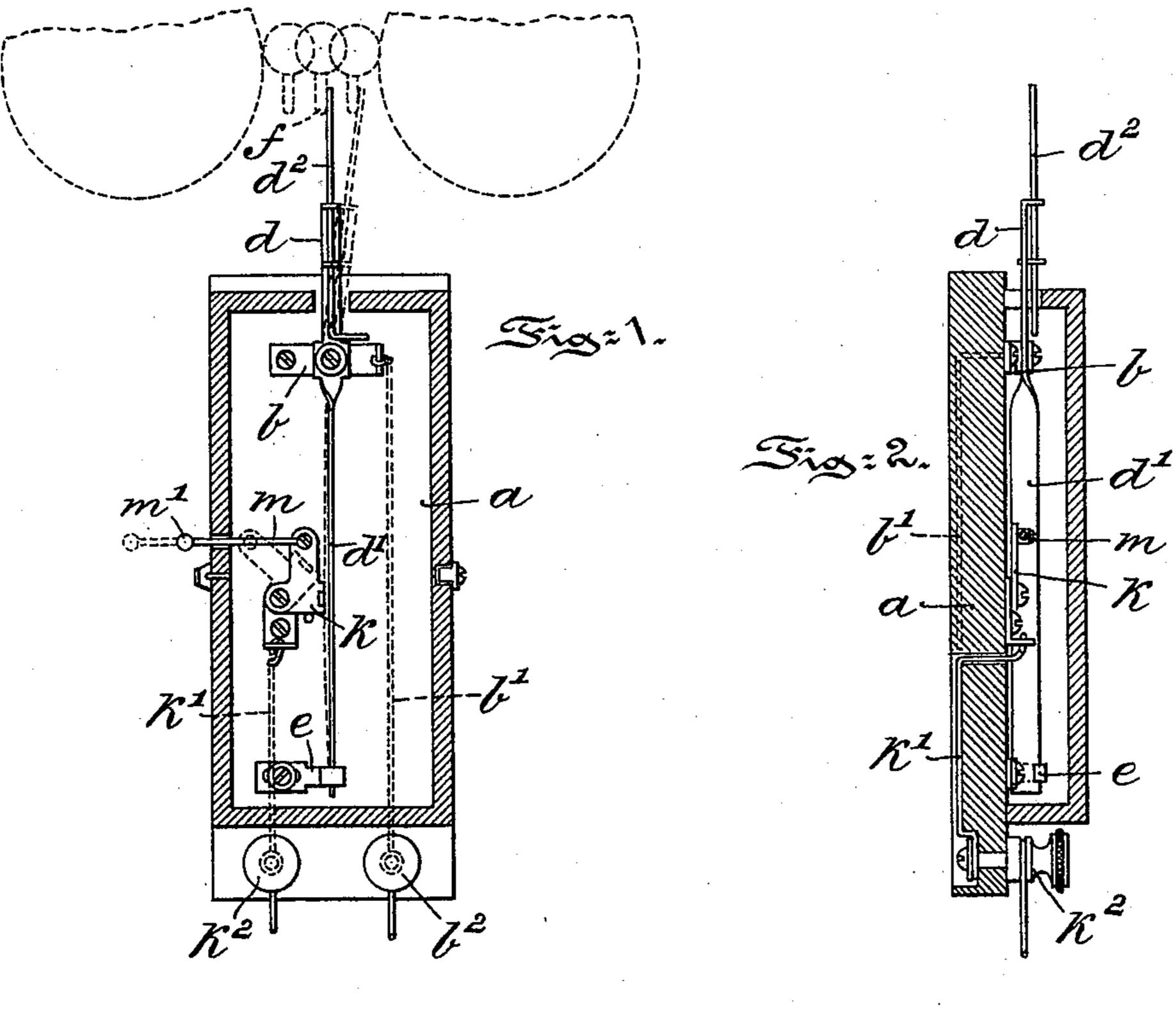
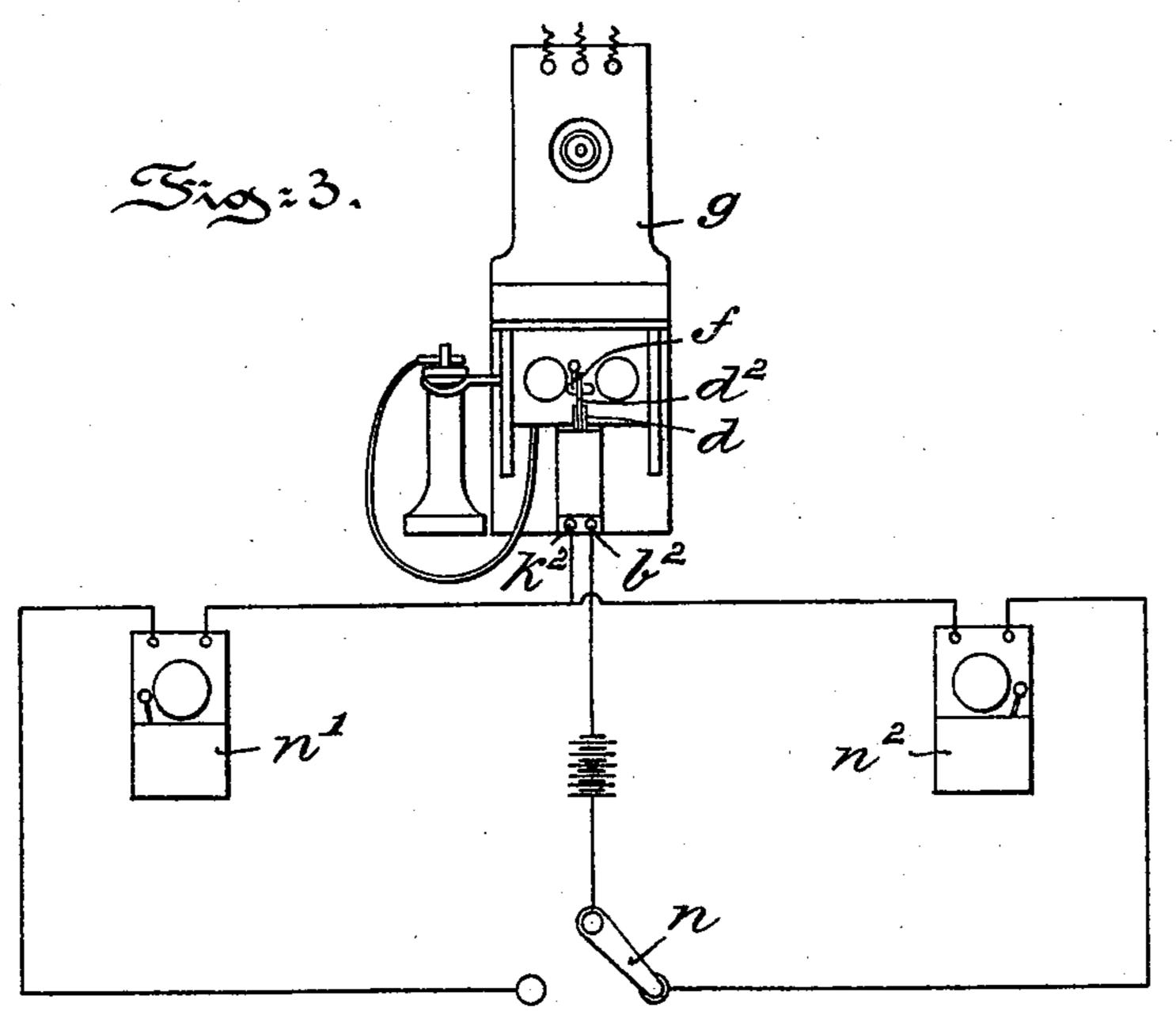
E. S. DICKERSON. BELL EXTENSION FOR TELEPHONES.

No. 594.131.

Patented Nov. 23, 1897.





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THE NORRIS PETERS CO. PHOTO-LITHO., WASHINGTON, D. C.

United States Patent Office.

ERNEST S. DICKERSON, OF PHILADELPHIA, PENNSYLVANIA.

BELL EXTENSION FOR TELEPHONES.

SPECIFICATION forming part of Letters Patent No. 594,131, dated November 23, 1897.

Application filed August 11, 1897. Serial No. 647,779. (No model.)

To all whom it may concern:

Be it known that I, ERNEST S. DICKERSON, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Bell Extensions or Attachments for Telephones, of which the following is a specification.

sion or attachment for a telephone or similar instrument whereby the call or signal of the instrument may be transmitted to an auxiliary callor signal remote thereto; and in such connection it relates particularly to the construction and arrangement of such an attachment or extension.

The principal object of my invention is to provide, in connection with the call-bell of a telephone or similar instrument, a make-and-break device adapted to control an auxiliary or local-battery circuit and the device adapted to be actuated by the call-bell or attachments of the same to operate one or more signaling devices located in the local-battery circuit.

My invention consists of a flexible contact making and breaking arm pivoted intermediate of its ends to one of the contacts, one end of the arm resting in a stop and the insermediate portion of the arm adapted to oscillate to make and break contact with the second contact and the two contacts introduced into an auxiliary or local-battery circuit in which are included the additional signaling devices; and my invention further consists of the improvements in a bell extension or attachment for telephone or similar instruments when constructed and arranged in substantially the manner hereinafter described and claimed.

The nature and scope or characteristic features of my invention will be more fully understood from the following description, taken in connection with the accompanying drawings, forming part hereof, in which—

Figure 1 is a front elevational view of the bell extension or attachment embodying the features of my invention with the case or housing sectioned to more clearly illustrate the construction and arrangement of said device. Fig. 2 is a transverse sectional view of the device, and Fig. 3 is a diagrammatic

view of the attachment to a telephone receiving and transmitting instrument and a local-battery circuit controlled by said attachment 55 or extension.

Referring to the drawings, a represents the bottom of the casing or housing for the instrument, to which is secured a fixed contactpoint b. To this contact-point b is pivoted 60 an arm d, the lower end d' of which is thin and flexible and rests in a slotted or box-shaped stop e, also secured to the base of the housing. The upper end of the arm d is provided with an extension d^2 , adapted to rest against 65 or contact with the call-bell lever f of a telephone or other similar instrument g, substantially as indicated in Fig. 1 of the drawings.

To the base α of the casing is pivotally se- 70 cured an adjustable contact k, arranged opposite the flexible end d' of the arm d and adapted to periodically engage therewith when the arm d is vibrated by the call-bell lever f. The contact k is adapted to be moved 75toward or away from the flexible portion d'of the arm d by means of a slide or push m, operated by a button m', substantially as illustrated in Fig. 1. The contact b is connected by a wire b' with a binding-post b^2 , 80 and the contact k is connected by a wire k' to a second binding-post k^2 . The posts k^2 and b^2 are the terminals for an auxiliary or localbattery circuit, in which is included a series of call-bells or signals $n' n^2$, adapted to be 85 thrown into or out of circuit by a switch n, substantially as indicated in Fig. 3. These signals or bells, it being understood, are to be located in different rooms of a house or other structure more or less remote from the tele- 90 phone instrument g.

The operation of the device of my invention hereinbefore described is as follows: The arm d is connected by the extension d^2 to the right-hand side of the call-bell lever f of a telephone of or other similar instrument, and as the lever f vibrates to the right the arm is carried with it, thus bowing or bending its flexible portion d' toward the contact k and setting in action one of the signals or bells n' or n^2 , which has no been switched into circuit by the switch n. As the lever f travels to the left the portion d' springs away from the contact and the local circuit is broken. When the device is not in

use, its extension d^2 may either be removed from the lever f, or else the contact k may be moved by the slide m to the position indicated by dotted lines in Fig. 1, in which position the vibration of the arm d cannot cause the flexible portion d' to engage the contact.

Having thus described the nature and objects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

of a telephone, of a flexible arm resting at one end against said lever, a contact to which said arm is pivotally secured, a stop wherein the other end of the arm rests, a second contact arranged between the stop and the first contact, all arranged so that when the call-bell lever oscillates the flexible arm will periodically engage the second contact, a local-battery circuit wherein the contacts are included, and one or more signaling devices included in said local-battery circuit, substantially as and

for the purposes described.

2. The combination with the call-bell attachment of a telephone, of a make-and-break device, consisting of a long flexible arm piv-25 otally connected with a contact-point, a stop in which the other end of said flexible arm rests, said arm adapted to be oscillated by said telephone call-bell attachment to swing it into and out of engagement with a second contact 30 located between said stop and first contact and provided with a shifting device, a local-battery circuit wherein said contacts are adapted to be included, and one or more signaling devices in said circuit, substantially as and for 35 the purposes described.

In testimony whereof I have hereunto set my signature in the presence of two subscrib-

ing witnesses.

ERNEST S. DICKERSON.

Witnesses:

J. Walter Douglass, Thomas M. Smith.