

(No Model.)

3 Sheets—Sheet 1.

A. R. MIRANDA.
ANNUNCIATOR.

No. 577,532.

Patented Feb. 23, 1897.

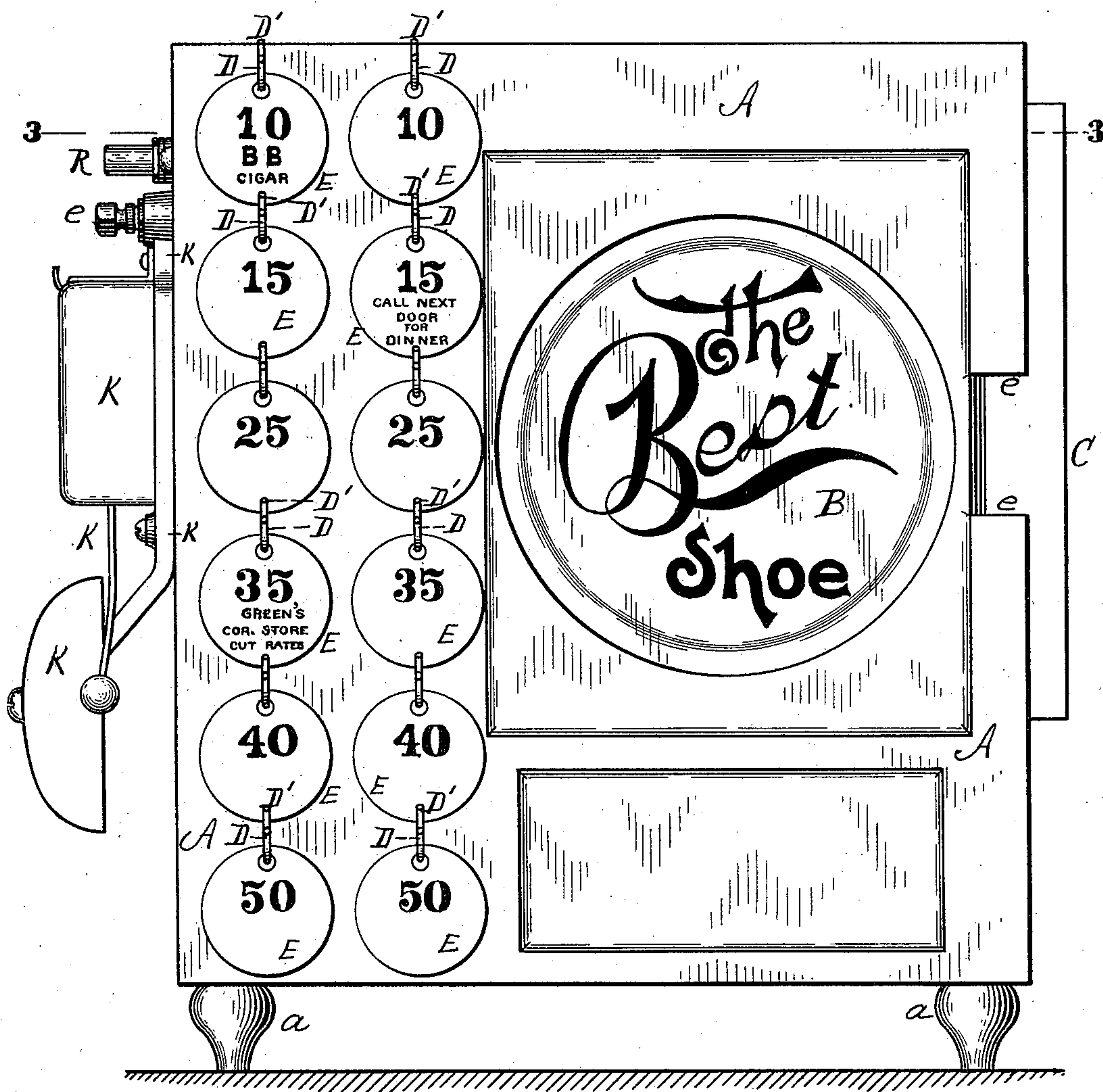


FIG. 1.

WITNESSES:

A. T. Bouney.
C. H. Graydon.

INVENTOR

Abraham R. Miranda.

By his Atty.

Henry W. Williams

(No Model.)

3 Sheets—Sheet 2.

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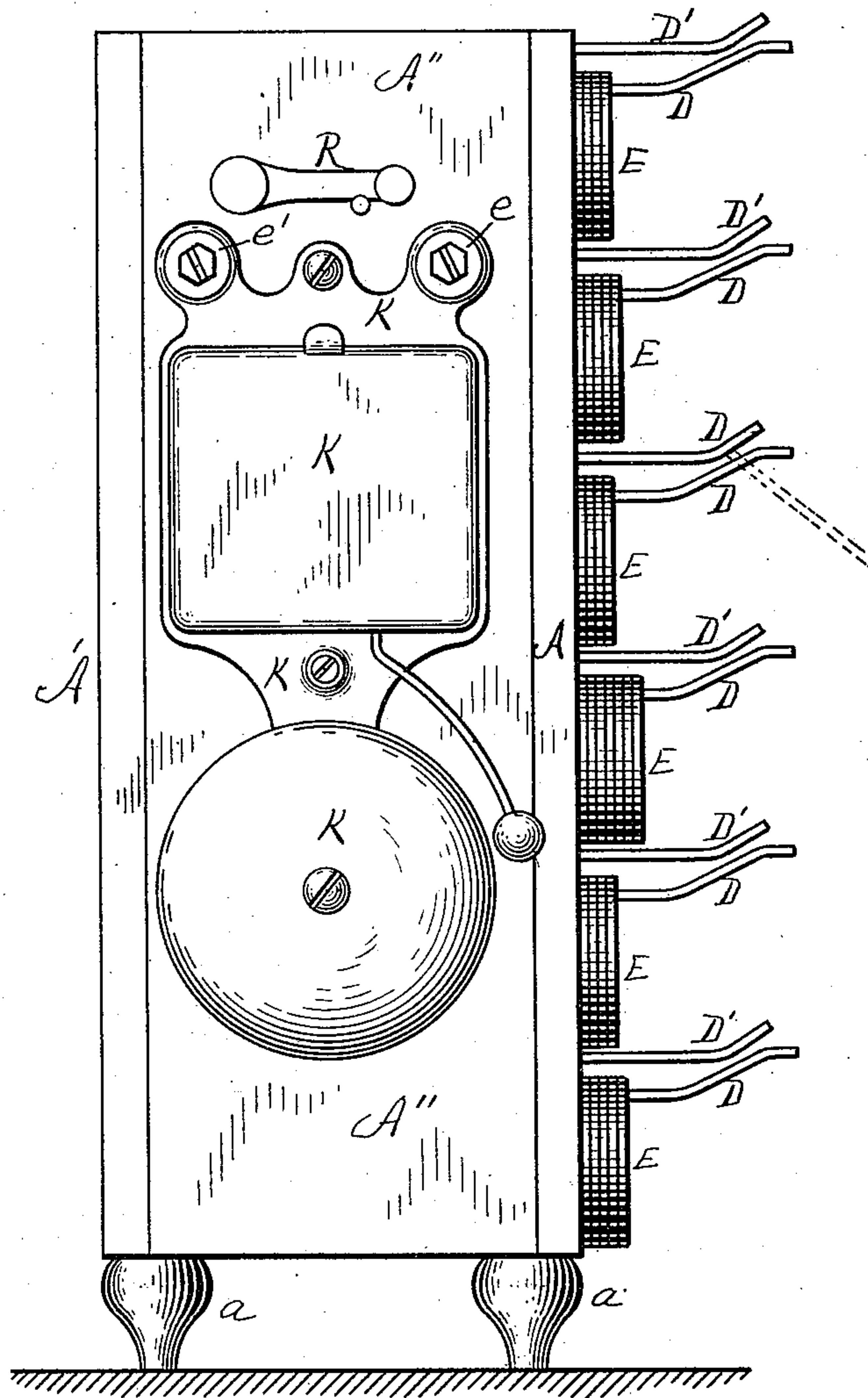


FIG. 2.

WITNESSES

A. N. Poncey,
C. G. Graydon.

INVENTOR.

Abraham R. Miranda
By his Atty
Sherry Williams.

(No Model.)

3 Sheets—Sheet 3.

A. R. MIRANDA.
ANNUNCIATOR.

No. 577,532.

Patented Feb. 23, 1897.

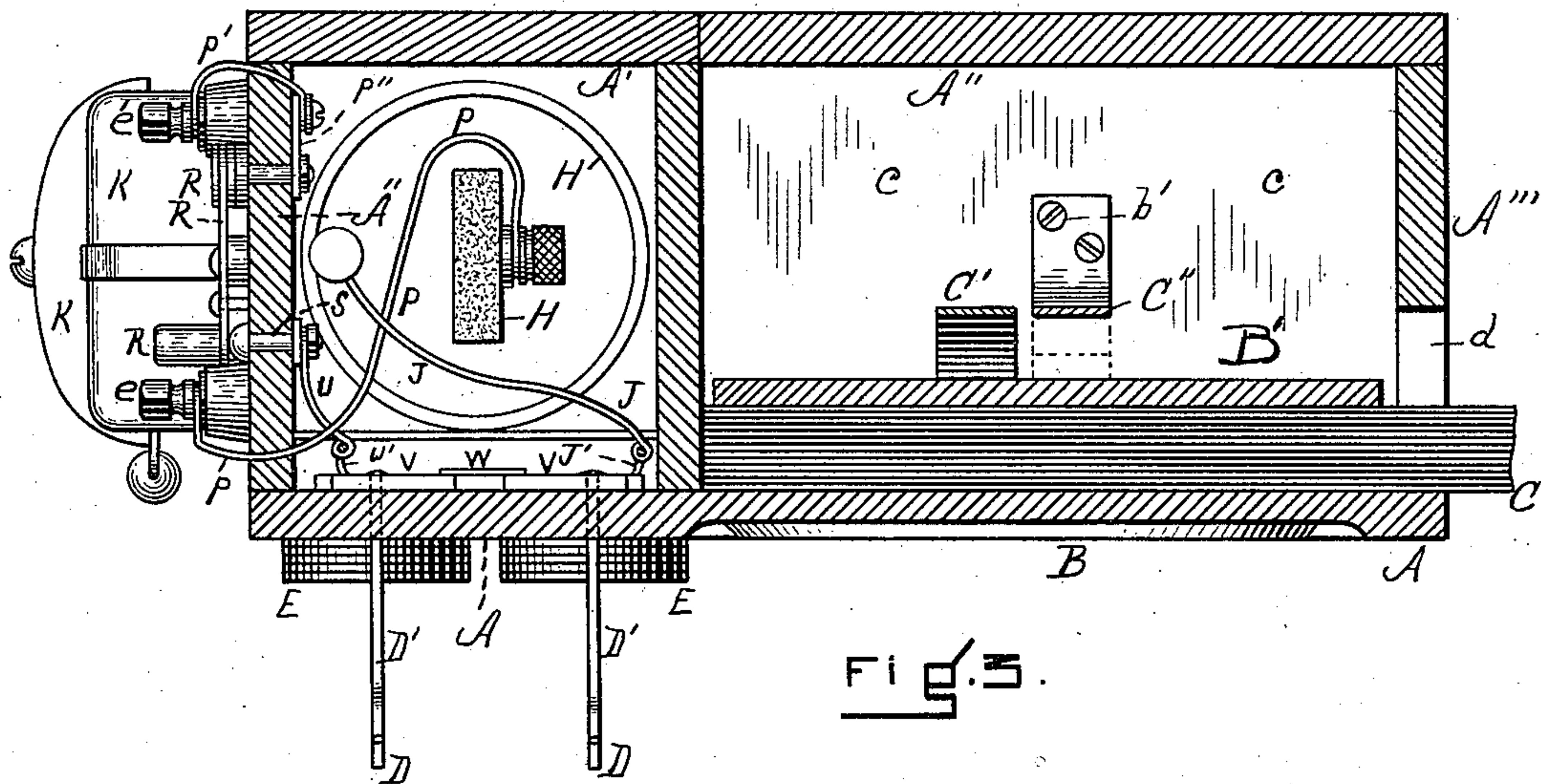


FIG. 3.

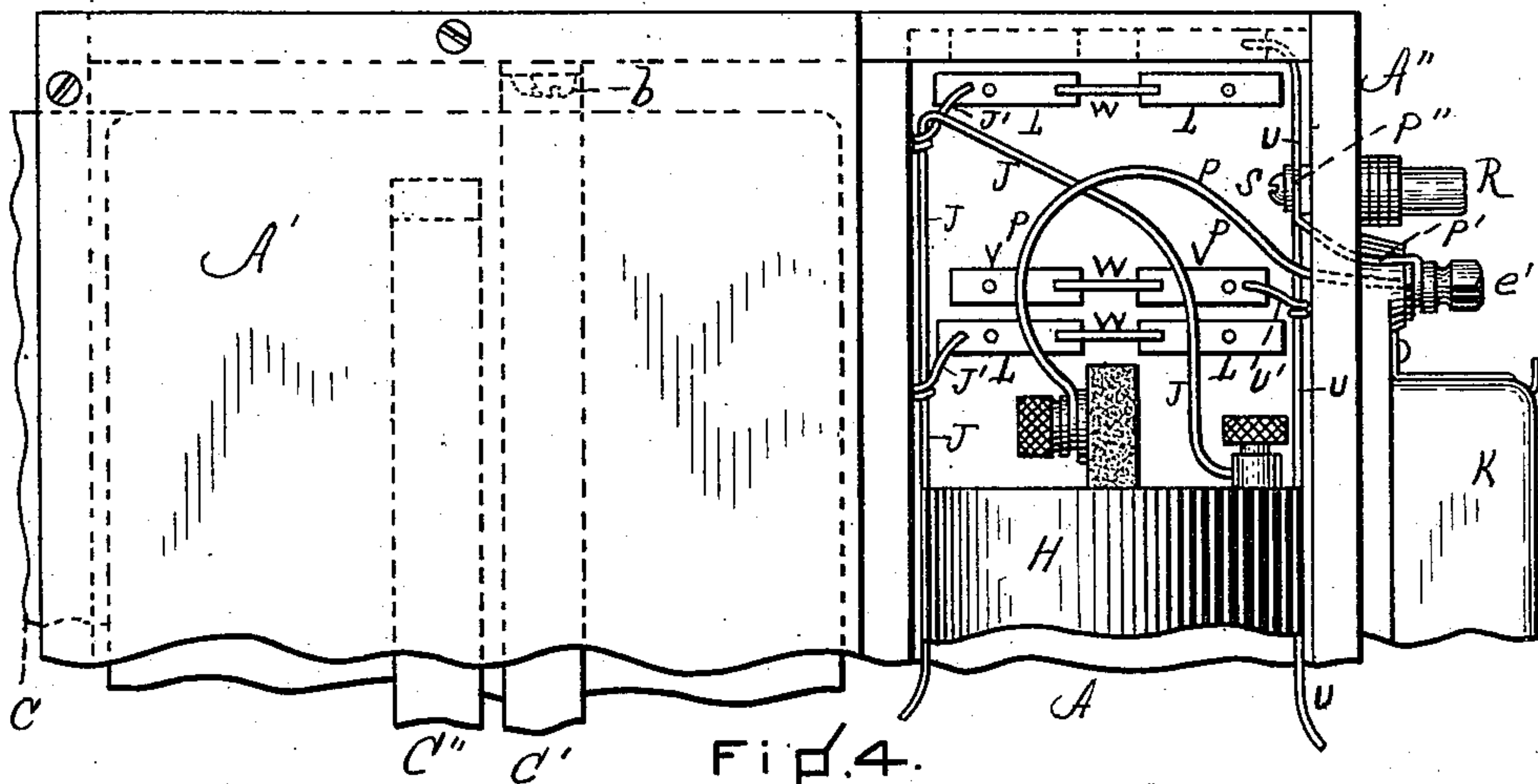


FIG. 4.

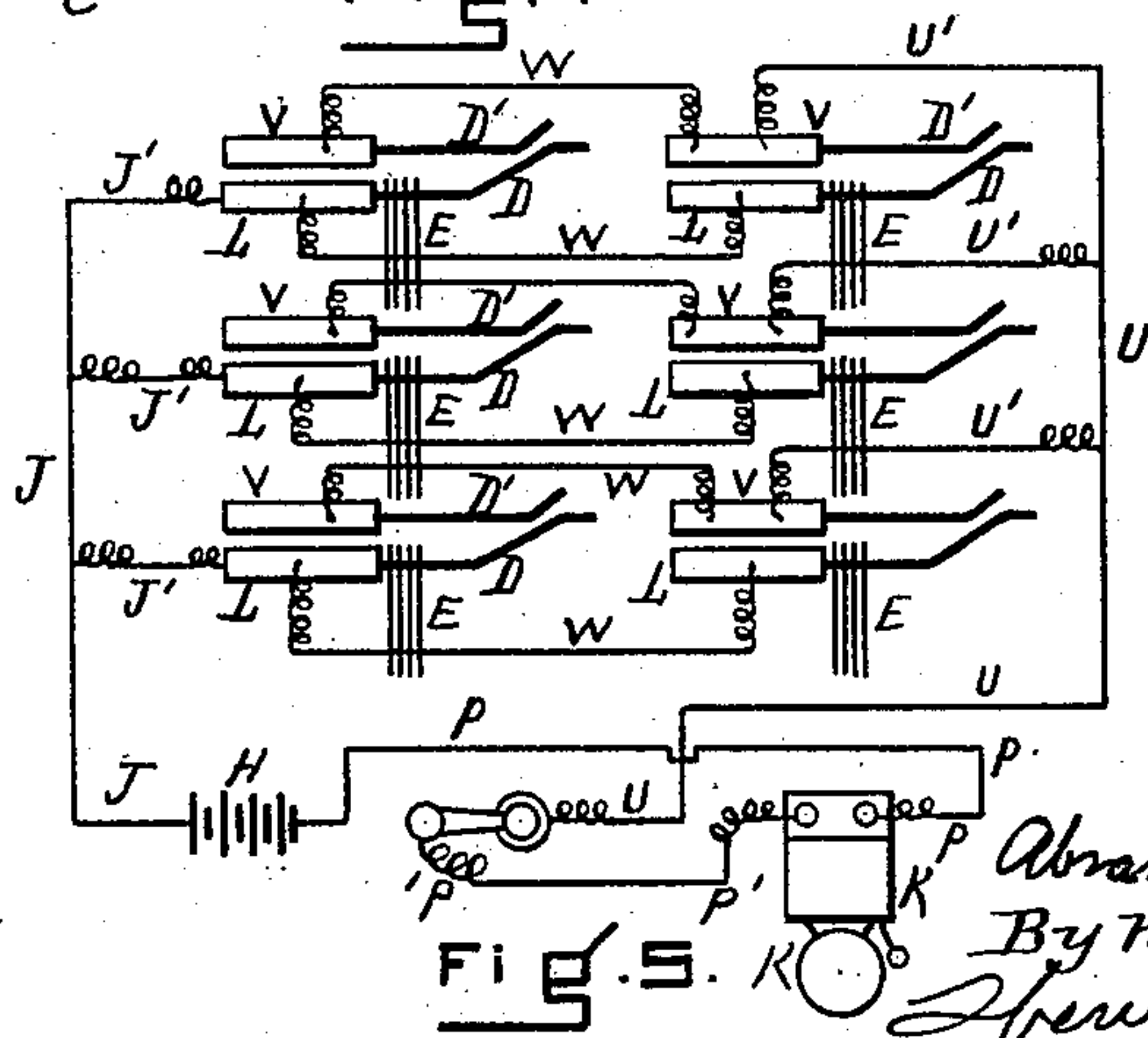


FIG. 5.

WITNESSES.

A. N. Pomeroy.
C. G. Graydon.

INVENTOR

Abraham R. Miranda,
By his Atty
Sherry Williams

UNITED STATES PATENT OFFICE.

ABRAHAM R. MIRANDA, OF BOSTON, MASSACHUSETTS.

ANNUNCIATOR.

SPECIFICATION forming part of Letters Patent No. 577,532, dated February 23, 1897.

Application filed November 17, 1896. Serial No. 612,452. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM R. MIRANDA, a citizen of the United States, residing in Boston, in the county of Suffolk and State of Massachusetts, have invented a new and Improved Advertising - Annunciator for Hair-Dressing Establishments, of which the following is a specification.

This invention is an apparatus intended for use in hair-dressers' and barbers' establishments; and it has for its principal objects, first, to announce automatically, by means of an electric bell, the abandonment of a chair by a retiring customer, thus indicating to any who may be in waiting that a chair is empty and available, such announcement being made by the withdrawal of a check marked with the amount due and advertising matter and given to the retiring customer, and, second, to provide accessible shaving-paper held against the rear surface of the window in the case and provided on its front surface with advertising matter.

The nature of the invention is fully described in detail below and illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of my apparatus. Fig. 2 is an end view of the same. Fig. 3 is a horizontal section taken on line 3, Fig. 1. Fig. 4 is a rear elevation of the upper portion of the apparatus with a part of the rear wall removed. Fig. 5 is a diagram showing the electrical connections with the hooks for supporting the checks.

Similar letters of reference indicate corresponding parts.

A represents the front wall, A' the rear wall, and A'' and A''' the end walls of a case adapted to be supported in a vertical position by suitable feet *a*. The front wall A is provided near its right end with a glazed window B. A number of sheets of shaving-paper C are held against the rear surface of the glass in the window B by a presser-plate B', which is held in a vertical position against the back of the package of sheets C by the springs C' C'', the former of which is secured at one end at *b*, Fig. 4, to the upper wall or top of the case, and the latter of which is secured at one end at *b'* to a suitable horizontal partition *c*, both springs bearing against the rear surface of said plate B'. Each sheet of shaving-paper

C has advertising matter printed upon its front surface and visible through the window B. The sheets are inserted through the vertical opening or slot *d* in the end wall A''', and the outer edge of the forward sheet is accessible by means of the notch or recess *e* in the front wall A, so that it can be quickly withdrawn, leaving the second sheet exposed at the window and pressed against it by the springs C' C''.

Extending forward from the front wall A, at the left of the window B, are two (more or less) vertical rows of supporting-hooks D, upon which are hung, by means of suitable perforations, checks E, having printed or stamped upon them numbers corresponding with the prices of hair-dressing, shaving, &c., and suitable advertising - matter. These hooks have their forward ends preferably bent up at an angle, as shown. Above each of these hooks D a spring-rod D' projects from the wall A, the forward end thereof being bent preferably slightly upward and extending near to, but not quite in contact with, the hook. The hooks D and spring-rods D' are electrically connected with a battery H, Figs. 3 and 4, within the case, and an ordinary annunciator K is in circuit therewith. When a customer vacates his chair, the hair-dresser grasps a check E, indicating the amount due, and slips it off the hook D to hand to the customer. In removing it from the hook the upper edge of the check comes in contact with and presses up the spring-rod D', and thus establishes an electrical connection between said hook and spring-rod and completes the circuit, causing the gong of the annunciator K to be rung. The ringing of this gong serves to notify the customers in waiting that a chair is disengaged, or, in other words, it takes the place of the hair-dresser's "Next!"

In Figs. 3 and 4 and in the diagram in Fig. 5 the wiring by means of which the annunciator and the hooks D and spring-rods D' are in circuit is illustrated. From the battery H a wire J extends and is connected by the wires J' with metallic plates L, secured to the rear side of the wall A, and from which the hooks D extend through said wall. The other wire P extends from the battery H to the binding-post *e*, Figs. 1, 2, and 3, extending out-

ward from the end wall A'', and thence through the annunciator and gong to the wire P', which extends from the binding-post e' to the metallic connection P'', Figs. 3 and 4, which connects with the switch R. This switch when in the position indicated in the drawings swings down to a contact-post S, Figs. 3 and 4, and a wire U extends therefrom and is connected by wires U' with the metallic plates V, secured to the rear side of the wall A, and from which the spring-rods D' extend. When a check is being withdrawn, it connects its hook D with the spring-rod D' next above it, and the electrical circuit is from the battery H through wire J and a wire J' to the plate L, connected with said hook D, thence through the check and through the spring-rod D' to its plate V, thence through a connecting-wire W to the opposite plate V on the other row, thence through a wire U', wire U, and contact S to the switch R, thence through the wire P' to the annunciator K, and thence through the wire P to the battery. Similar wires W connect the two series of plates L.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In an annunciator for hair-dressing establishments, a case suitably provided with the front wall A; the hooks D extending from said case; checks E suspended on said hooks; the rods D' extending from said case, and each rod extending above a corresponding check-hook out of contact therewith but with its forward portion sufficiently near the cor-

responding portion of the hook to cause the check during the process of removal to come into contact with said rod and thus electrically connect the same with the hook next beneath it; an annunciator; and electrical connections, said annunciator, hooks and rods being in electrical circuit, substantially as described.

2. In an annunciator for hair-dressing establishments, a case suitably provided with the front wall A; the hooks D extending from said case; checks E suspended on said hooks; the rods D' extending from said case, and each rod extending above a corresponding check-hook out of contact therewith but with its forward portion sufficiently near the corresponding portion of the hook to cause the check during the process of removal to come into contact with said rod and thus electrically connect the same with the hook next beneath it; an annunciator; an electrical battery; the wire J; the plates L from which said hooks extend; the wires J' connecting said wire J with said plates L; the plates V from which said rods extend; the wires W connecting the two series of plates V and the two series of plates L; a suitable switch; the wires U' U connecting said plates V with the switch; the wires P' connecting the annunciator with the switch; and the wire P connecting the annunciator with the battery, substantially as set forth.

ABRAHAM R. MIRANDA.

Witnesses:

HENRY W. WILLIAMS,
A. N. BONNEY.