No. 872,146. PATENTED NOV. 26, 1907.

G. L. PATTERSON.

ADJUSTMENT FOR CONTACTS.

APPLICATION FILED JULY 11, 1907.

Fig. 1.

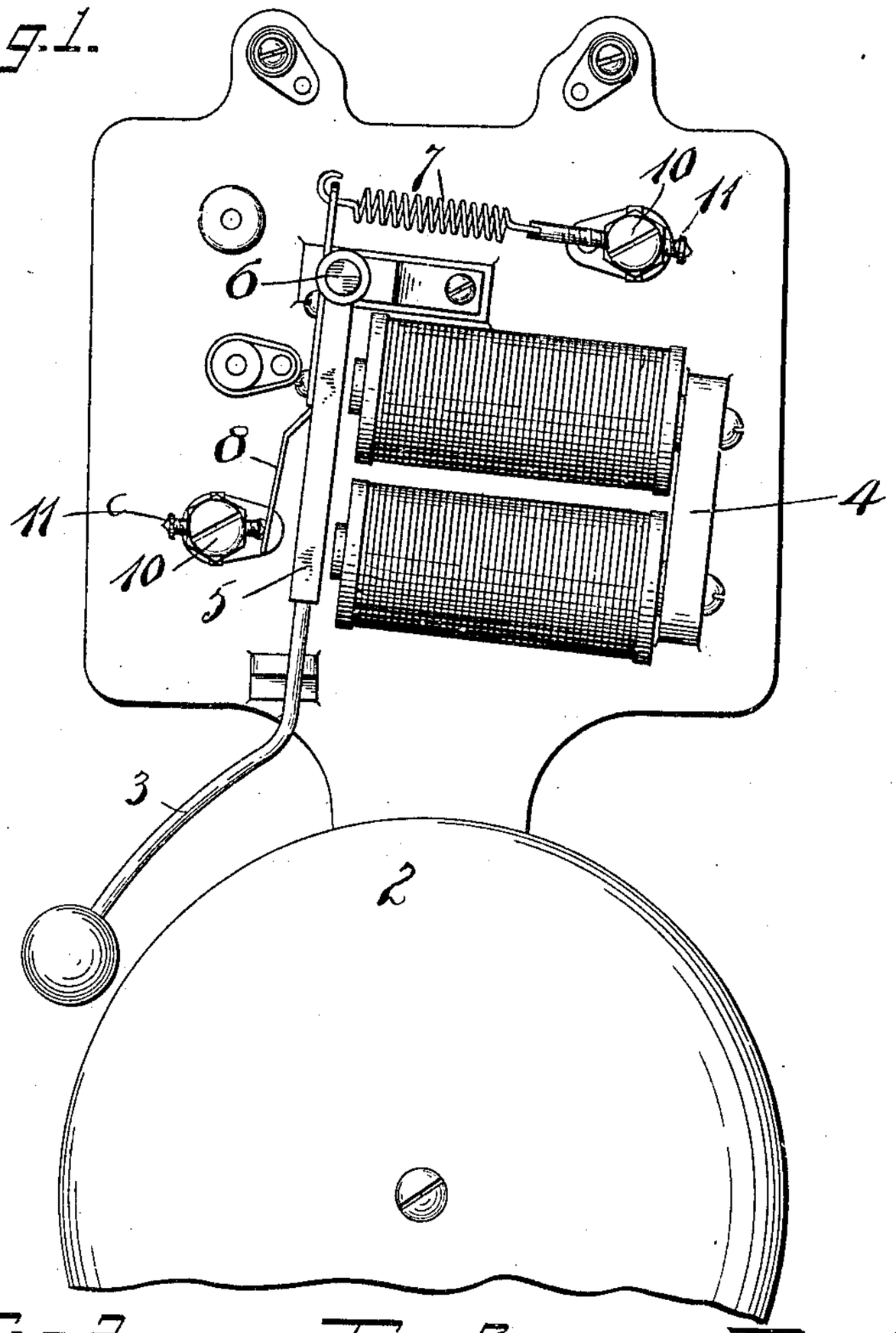


Fig. 2.

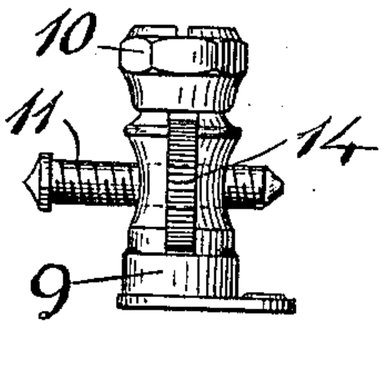


Fig. 3.

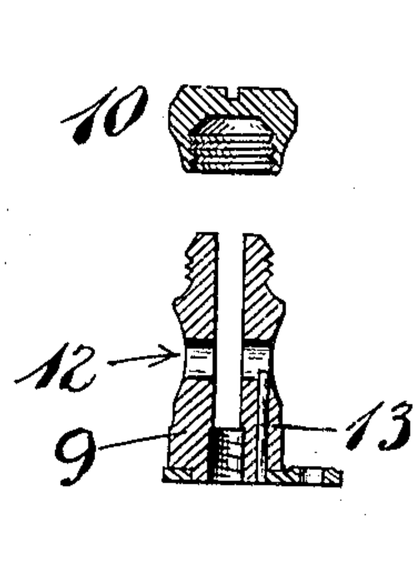
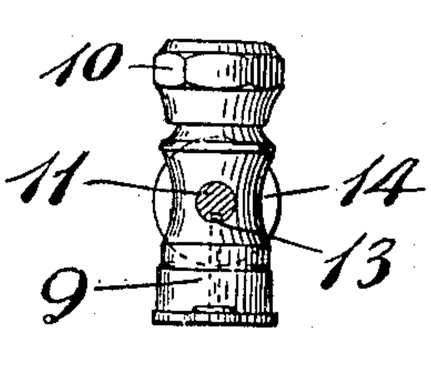


Fig. 4.



Witnesses:
Chas. A. Peard
Langdon Morris.

Inventor
G. L. PATTERSON
By his Attorneys
Baxter Brownell & Middleton.

UNITED STATES PATENT OFFICE.

GEORGE LEWIS PATTERSON, OF NEW YORK, N. Y., ASSIGNOR TO ALICE C. PATTERSON, OF NEW YORK, N. Y.

ADJUSTMENT FOR CONTACTS.

No. 872,146. Specification of Letters Patent. Patented Nov. 26, 1907.

Application filed July 11, 1907. Serial No. 383,187.

To all whom it may concern:

Be it known that I, GEORGE LEWIS PATTERSON, a citizen of the United States, residing at the city, county, and State of New York, have invented certain new and useful Improvements in Adjustments for Contacts, of which the following is a full, clear, and exact description.

My invention relates to improved adjusting devices.

The invention is of particular utility in connection with such means as require a delicate adjustment such as the contact spring of an electric bell.

In the drawings,—Figure 1 is a front elevation of an electric bell with the protecting cover removed; Figs. 2, 3, and 4 are detail views of the adjusting device proper.

1 is the frame of a bell.

2 is the bell.

3 is the hammer.

4 is an electro-magnet.

5 is the armature carrying the hammer 3. The armature 5 is pivoted at 6 and is normally pulled away from the magnet by means of a tension spring 7.

8 is the contact spring.

My improved adjusting device, as shown in the drawings, is applied to both the contact spring 8 and the tension spring 7.

The construction of the adjusting device is substantially as follows:

9 is a post arranged to have a suitable support. This post is split longitudinally and the upper free ends of the split portion are engaged by a cap-piece 10, which is preferably threaded on a slight taper to fit on to the correspondingly threaded portion of the split post. As the cap 10 is screwed down it will draw the two side members of the split post toward each other, so as to secure a clamping effect for the purpose of setting the adjusting screw or holding it against displacement.

In the preferred form of the invention, 11 is the adjusting screw, the same being mounted to slide to and fro through a transverse passage in the split post 9. This passage is indicated at 12, Fig. 3.

13 is a pin which acts as a spline to prevent the rotation of the screw 11 in the post.

14 is an adjusting nut mounted in the slot between the side members of the split post. This adjusting nut 14 is threaded to correspond with the screw 11, hence, when the cap 10 is elevated and tension is removed from the nut 14, the same may be turned so as to advance or retract screw 11, the nicest adjustment being possible by this arrangement. As soon as the desired adjustment of the member 11 has been attained, the cap 10 is set down and the side members of the split post are clamped against the adjusting nut 14, preventing the same from turning and thereby preventing the slightest dislodgment of the member 11. The most accurate adjustment under the most trying conditions may therefore be attained. This will be appreciated when the device is used in connection with an electric bell when it is desired to effect the adjustment while the armature 5 and hammer 3 are rapidly vibrating. To secure this adjustment by the ordinary means is most difficult, owing to the jarring produced by the vibration of the hammer.

If desired, the inner end of the crown-cap 10 may be tapered slightly and the end of the side members of the split post may be likewise tapered. In this form, the wedging effect may be produced without tapering the screw-threaded portion.

I am aware that various modifications may be made without departing from the spirit and scope of the invention, hence, I have only shown my invention in its preferred form.

What I claim is—

1. In a device of the character described, a split post, an adjusting screw passing therethrough, an adjusting nut mounted thereon between the side members of the post, and means for drawing together the side members of the split post to secure the adjusting screw against displacement after adjustment.

2. In a device of the character described, a split post, an adjusting screw passing therethrough, an adjusting nut mounted on said screw between the side members of the split post, means to prevent the rotation of the screw, means to draw the side members of the split post into engagement with the adjusting nut to prevent the displacement of the screw after adjustment.

3. In a device of the character described, a split post having a transverse passage, a screw-threaded adjusting member passing therethrough, an adjusting nut between the side members of the post and mounted upon the screw-threaded adjusting member, means to prevent the rotation of the screw-threaded adjusting member in the post, and means to lock the adjusting nut against displacement after adjustment.

GEORGE LEWIS PATTERSON.

Witnesses:
R. C. MITCHELL,
LANGDON MOORE.