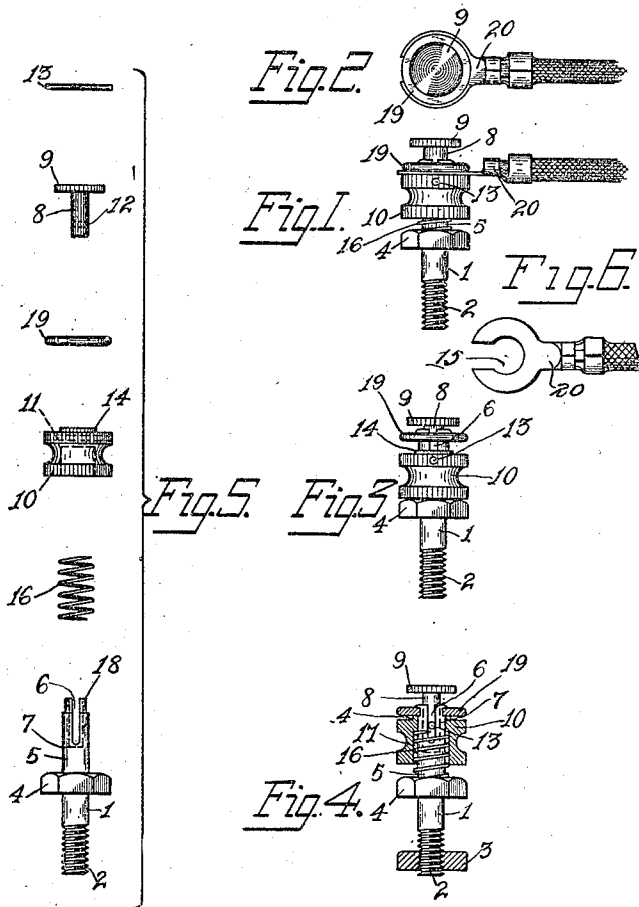


L. ERICSON.
 SPRING BINDING POST.
 APPLICATION FILED AUG. 4, 1913.

1,181,513.

Patented May 2, 1916.



Witnesses:

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UNITED STATES PATENT OFFICE.

LAWRENCE ERICSON, OF CHICAGO, ILLINOIS, ASSIGNOR TO KELLOGG SWITCHBOARD & SUPPLY COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

SPRING BINDING-POST.

1,181,513.

Specification of Letters Patent.

Patented May 2, 1916.

Application filed August 4, 1913. Serial No. 782,808.

To all whom it may concern:

Be it known that I, LAWRENCE ERICSON, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Spring Binding-Posts, of which the following is a specification.

My invention relates to binding posts and has for its object the provision of an improved spring actuated device of this character.

More particularly my invention in the form herein disclosed comprises a body portion having a shoulder adapted to surmount a suitable mounting plate and having a stem by means of which the body portion is mounted. A movable element is then provided upon the top of the body portion above the shoulder part adapted to clamp a connector or other similar connecting element between itself and some part of the body portion. Resilient means are also provided surmounting the shouldered part of the body portion adapted to force the body portion and the clamping element together for the purposes described.

I will explain the form of carrying out my invention more in detail by referring to the accompanying drawing, in which—

Figure 1 is a side view of my improved binding post with a connector shown in place; Fig. 2 is a top view thereof; Fig. 3 shows the device in an alternative position, the connector being removed; Fig. 4 is a partial longitudinal sectional view to illustrate features of construction; Fig. 5 is a dissembled view of the parts constituting the device; Fig. 6 is a top view of a connector.

Referring more particularly to Figs. 1 to 5 inclusive I show a connector consisting of the body portion 1 having a screw threaded extension 2 adapted to receive a nut 3. The body portion 1 is surmounted by an enlarged portion 4 preferably shaped in the form of a nut, between which nut portion 4 and nut 3 are adapted to mount the device in place on some suitable mounting plate as may be desired. The body portion 1 also has an upwardly extending stem 5 provided with a slot 6 extending entirely across and having a bore 7 which is hollow and cylindrical as shown more clearly in dotted lines in Fig. 5. The bore 7 is of a

size to accommodate a reciprocating plunger 8 carrying a finger piece 9. The stem 5 is also adapted to carry and provide a sliding mounting for a clamping element 10. This clamping element 10 as shown more clearly in Fig. 5 has a cylindrical hole 11 drilled therethrough of a size corresponding to the size of a cylindrical hole 12 likewise drilled transversely through the plunger 8. A pin 13 is adapted to pass through the holes 11 and 12 after the devices are mounted in place as shown in Figs. 3 and 4, and thus whenever the finger portion 9 is pressed downwardly or reciprocated, this causes a reciprocation of the clamping element 10. The clamping element 10 has a cylindrical projection 14 which is adapted to be of a size corresponding to the cylindrical hole 15 of a connector so that after the connector is mounted in place it is locked upon this projection as will presently appear. The stem 5 also carries a spring 16 which is seated upon the nut portion 4 and which is surrounded by the clamping element 10, which has its bore 17 of enlarged cross-section to accommodate this spring. The restricted bore of the clamping element 10 which slides upon the stem 5 forms a shoulder against which abuts the upper extremity of this spring 16. The stem 5 also has an extension 18 of restricted diameter as shown more clearly in Fig. 5, which extension is adapted to be surmounted by a washer 19 after the parts are assembled, whereupon this extension 18 is bent outwardly as shown more clearly in Fig. 4 to hold the washer 19 in place. After this, the plunger 8 with the fingerpiece 9 may readily be inserted and the pin forced into place so that the parts are in the assembled condition as shown in the illustration. The connector 20 is then clamped between the washer 19 and the upper surface of the clamping element 10, the projection 14 entering the hole 15 of the connector, thus locking it in place.

From what has been described it will be apparent that my invention can be variously modified without departing from its spirit.

Having however thus described two forms which my invention may take, what I claim as new and desire to secure by Letters Patent is:

1. A spring binding post comprising a body post, clamping means carried at one

end thereof, a reciprocable spring actuated clamping element encircling said post whereby a terminal may be held between said element and clamping means, and a longitudinal reciprocable actuating plunger extending through the center of said body into operative relation with said element, said plunger having a portion extending from the body through the clamping means and its end of the post whereby said plunger and element may be actuated.

2. A spring binding post comprising a body, a clamping means carried thereby, a reciprocable spring actuated clamping element supported by said body beneath the clamping means whereby a terminal may be yieldingly held between said element and clamping means, an actuating member operatively attached to the clamping element and extending through the clamping means, and an actuating button carried by said actuating member above said clamping means so that the movement of the actuating button toward or from the clamping means moves the clamping element away from or toward the clamping means respectively.

3. A spring binding post comprising a body member, a circular contact plate carried at one end thereof, a reciprocable clamping member provided with a circular orifice through which said body member extends thereby providing means for yield-

ingly clamping a terminal between the said clamping member and the said contact plate, an actuating member extending through the said contact plate into a circular orifice in said body member and operatively connected to the clamping element, and an actuating button carried by said actuating member above said contact plate so that the movement of the actuating button correspondingly moves the clamping element whereby the terminal may be removed or clamped in its operative position.

4. A spring binding post of the class described comprising a body member, a contact element carried at one end thereof, a reciprocable spring actuated clamping member encircling the post of said body member whereby a terminal may be held between said element and said clamping member, and a reciprocable actuating member extending into a central orifice of said body member into operative relation with said clamping member, said actuating member having a portion extending upwardly through the clamping plate whereby said clamping member may be actuated.

Signed by me at Chicago, county of Cook and State of Illinois, in the presence of two witnesses.

LAWRENCE ERICSON.

Witnesses:

G. E. MUELLER,
M. R. ROCKFORD.