

F. SHURZ.
Binding Screws.

No. 137,801.

Patented April 15, 1873.

Fig. 1

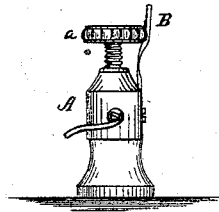
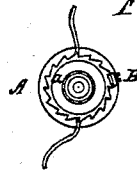


Fig. 2



Witnesses

J. H. Brown

Leonidas C. Willett

Inventor

Frank Shurz

By Lindley & Warner
his Atty

UNITED STATES PATENT OFFICE.

FRANK SHURZ, OF PALOMA, ILLINOIS.

IMPROVEMENT IN BINDING-SCREWS.

Specification forming part of Letters Patent No. **137,801**, dated April 15, 1873; application filed December 11, 1872.

To all whom it may concern:

Be it known that I, FRANK SHURZ, of Paloma, in the county of Adams and State of Illinois, have invented certain new and useful Improvements in Thumb-Screws, of which the following is a full, clear, and exact description, which will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing forming a part of this specification, and in which—

Figure 1 represents a side elevation of a thumb-screw provided with my improvements, and Fig. 2 a top view of the same.

Like letters of reference indicate like parts.

The object of my invention is to improve the operation of thumb-screws by preventing them from accidentally becoming loose after they are set, and to accomplish this without rendering them incapable of being readily set and loosened whenever it may be desirable and necessary to operate them; to this end my invention consists in the employment of ratchet-teeth engaged by a catch in such a manner that the screw when set will be firmly held in position until the catch is released.

In the drawing, A represents a thumb-screw of the class usually employed for the purpose of binding wires to electrical instruments. *a a* are ratchet-teeth cut in the periphery of the screw-head. B is a spring-catch, attached to the post which receives the screw, and this spring engages the teeth *a a*. The inclination of the face of the teeth *a a* is such that when the screw is turned down the engagement of the spring B with the teeth will prevent the latter from being accidentally turned in the opposite direction. An outward pressure upon the spring B will carry it from its engagement with the teeth, and the thumb-screw may then be unscrewed.

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

The thumb-screw A provided with ratchet-teeth and a spring-pawl, substantially as shown and described.

FRANK SHURZ.

Witnesses:

MIKE DUNN,
D. W. HAGGERTY.