

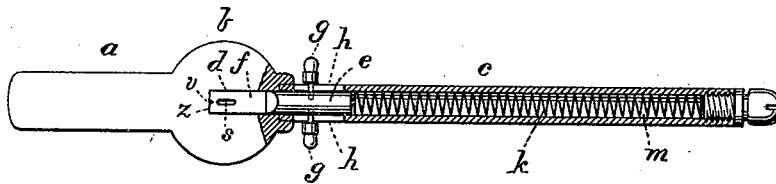
(No Model.)

L. W. GREB.  
RUBY PIN SETTER.

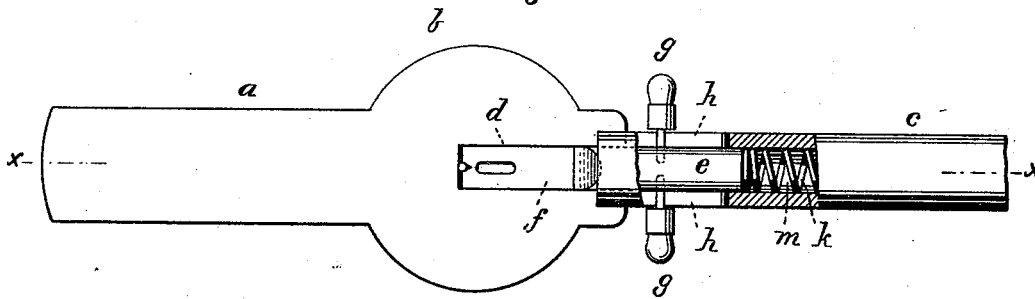
No. 421,831.

Patented Feb. 18, 1890.

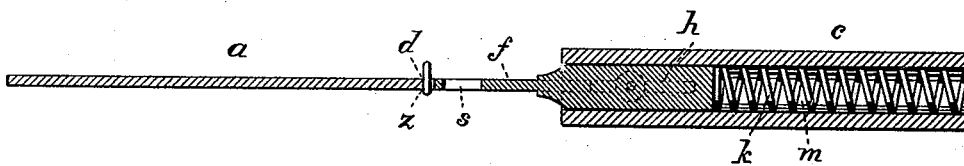
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES

Villette Anderson,  
J. W. Anderson.

INVENTOR

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# UNITED STATES PATENT OFFICE.

LOUIS WM. GREB, OF CANTON, OHIO.

## RUBY-PIN SETTER.

SPECIFICATION forming part of Letters Patent No. 421,831, dated February 18, 1890.

Application filed July 27, 1889. Serial No. 318,852. (No model.)

*To all whom it may concern:*

Be it known that I, LOUIS WM. GREB, a citizen of the United States, and a resident of Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Ruby-Pin Setters; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention and is a horizontal section. Fig. 2 is an enlarged view of a portion of the instrument, and is partly a top view and partly a section. Fig. 3 is a longitudinal section taken where the broken line *x x* is marked on Fig. 2.

This invention has relation to devices for setting a ruby-pin without removing the hair-spring; and it consists in the construction and novel combination of parts, as hereinafter set forth.

In the accompanying drawings, the letter *a* designates a metallic conduction-plate or extension of the plain slotted body *b*, to which is secured a hollow or chambered handle *c*, whose chamber aligns the slot of said body and carries the slide *e*, which is formed with an extension or tongue *f* fitting said slot. The slide *e* is provided with the handle portion or transverse finger-pins *g*, which extend through lateral slots of the handle, (indicated at *h*), and a spring *k* in the recess or seat of said handle back of the slide *e* serves to press the latter outward, so that its extension or tongue *f* is in possible engagement with the outer end *Z* of the slot *d*. At its end the tongue *f* is notched centrally, a true notch *v* being formed extending at right angles to the upper and lower surfaces of said tongue. Near said notch and back of it in the tongue is formed the longitudinal central

slot *s*, which is of sufficient width to take in the staff.

In applying this setting-instrument, the slide *e* is pulled back a little and the ruby-pin is placed in the notch *v* between the end of the tongue *f* and the outer edge of the slot *d*. The staff and roller-table are then taken, and the staff is placed in the slot *s* of the extension or tongue. The perforation in the roller-table, which is designed to receive the ruby-pin, is then placed over that portion of the said pin which projects upward from between the tongue and slotted body, and a small particle of shellac is placed on the end of the ruby-pin. The end of the conducting-extension *a* is then held over the flame of a spirit-lamp until the shellac melts, after which the instrument is removed from the flame. When cool the slide is pulled back to release the ruby-pin, which will be found truly and perfectly set in position. It is not necessary to remove the hair-spring or the roller-table in using this setter.

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

The jewel-pin setter consisting of the flat disk-shaped body having the heat-conducting extension at one edge and diametrically opposite said extension an open-ended slot, the hollow or chambered handle connected to said body with its chamber in line with said slot, the spring-pressed slide engaging said slot and having a cylindric portion or shank arranged within the chamber of said handle, and the manipulating-arms projecting from said slide and through slots in said handle, said slide having its tongue provided with a central end notch, and a slot contiguous to said notch, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

LOUIS WM. GREB.

Witnesses:

H. WEISSE,  
GEO. E. BETZ.