

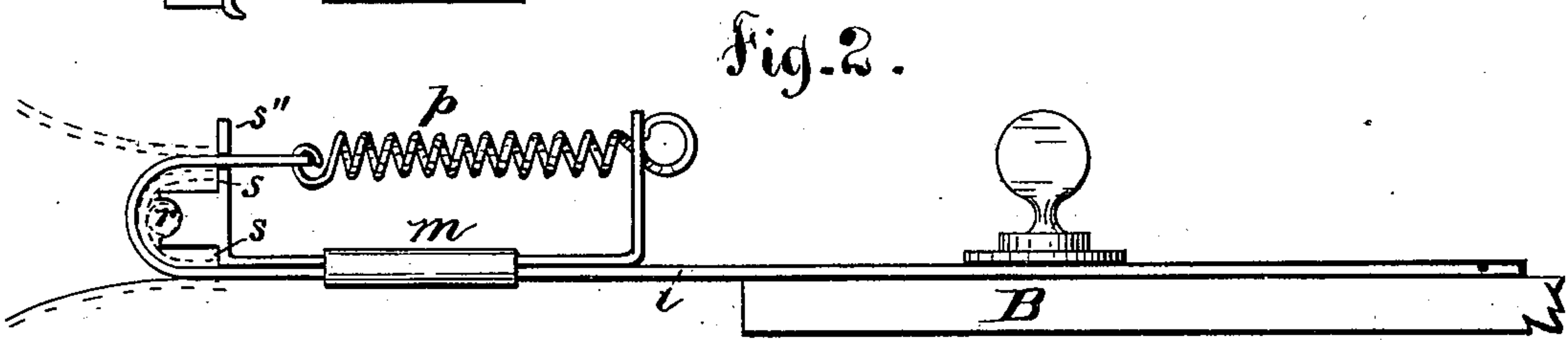
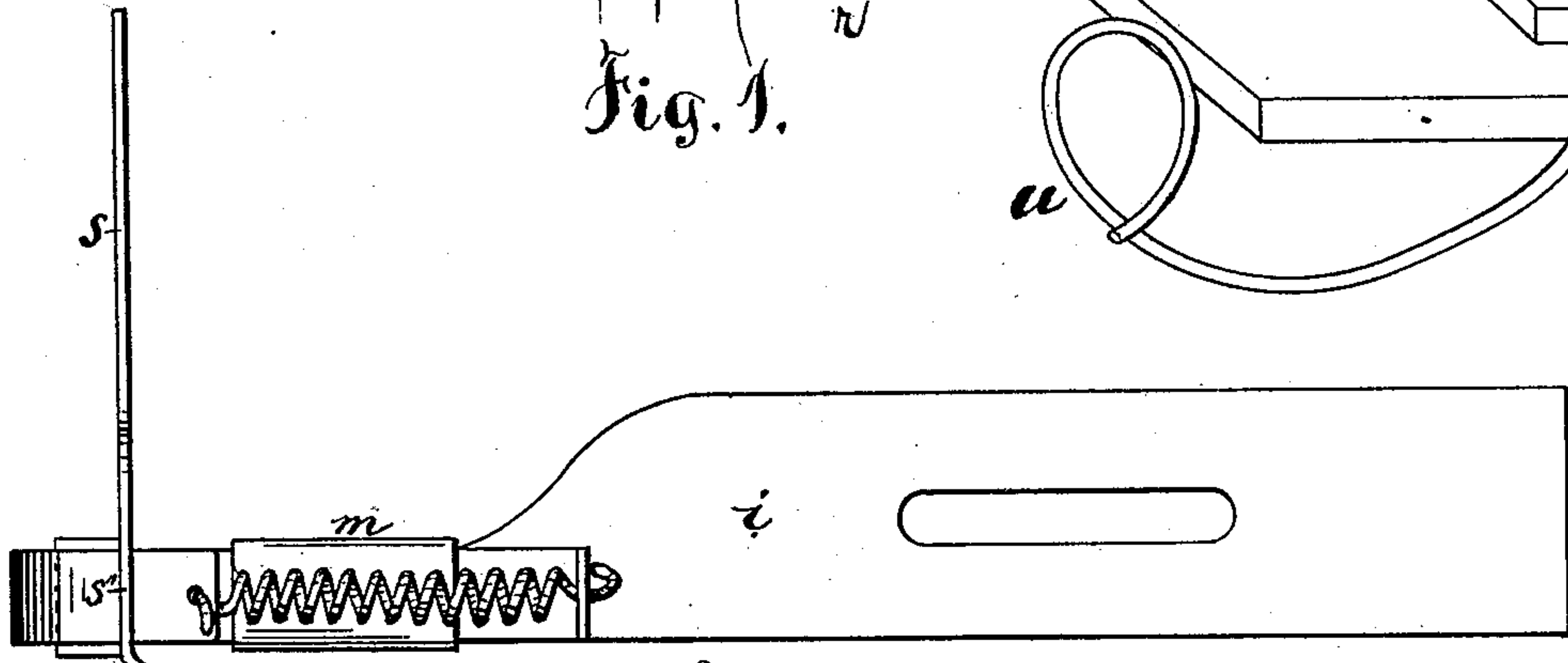
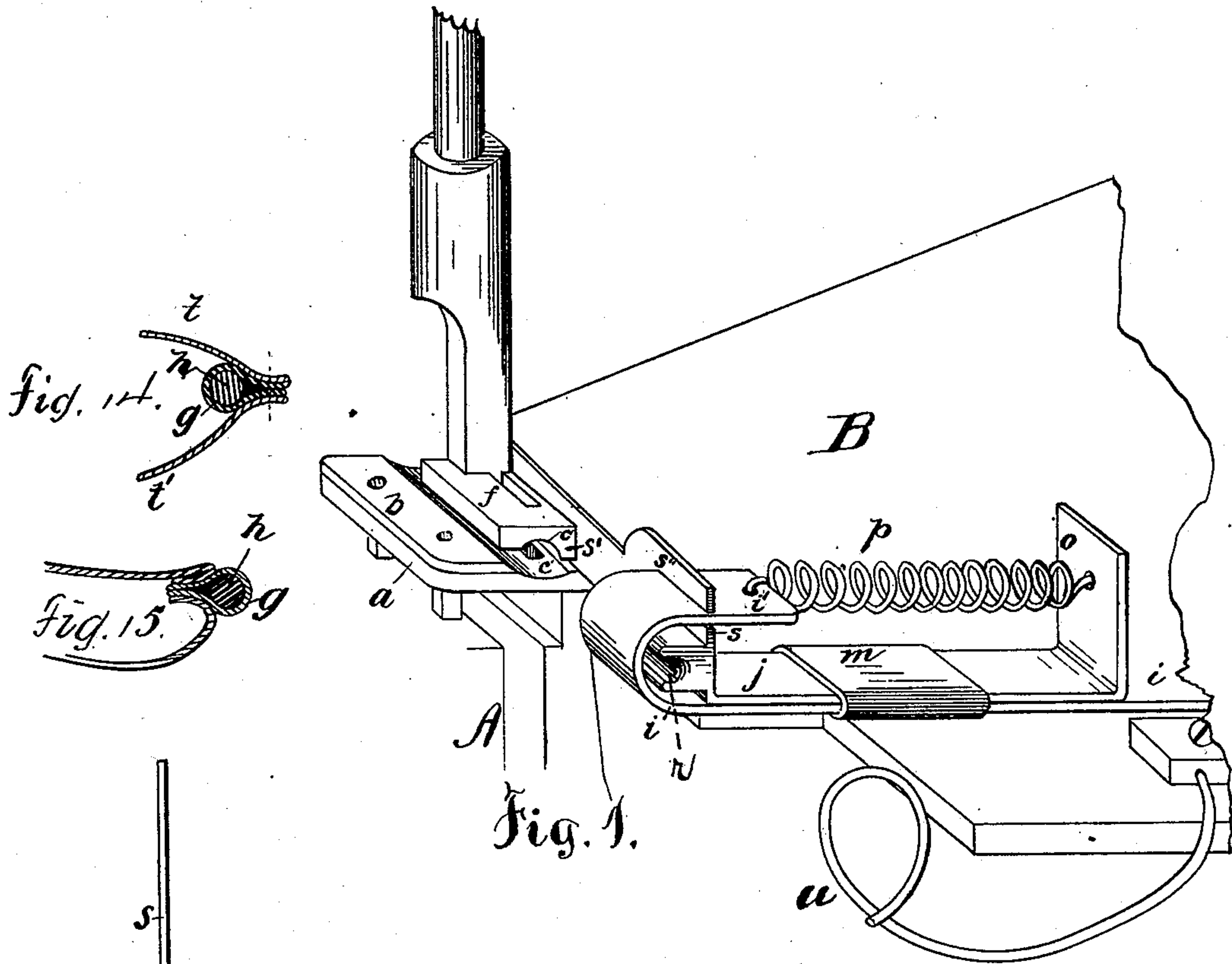
(Model.)

2 Sheets—Sheet 1.

J. H. BEA, Jr.
SEWING MACHINE GUIDE.

No. 272,847.

Patented Feb. 27, 1883.



Attest:
Charles H. Rice
Charles T. Winters.

Fig. 3.

Inventor:

John H. Bea, Jr.
by O. Drake. atty

(Model.)

2 Sheets—Sheet 2.

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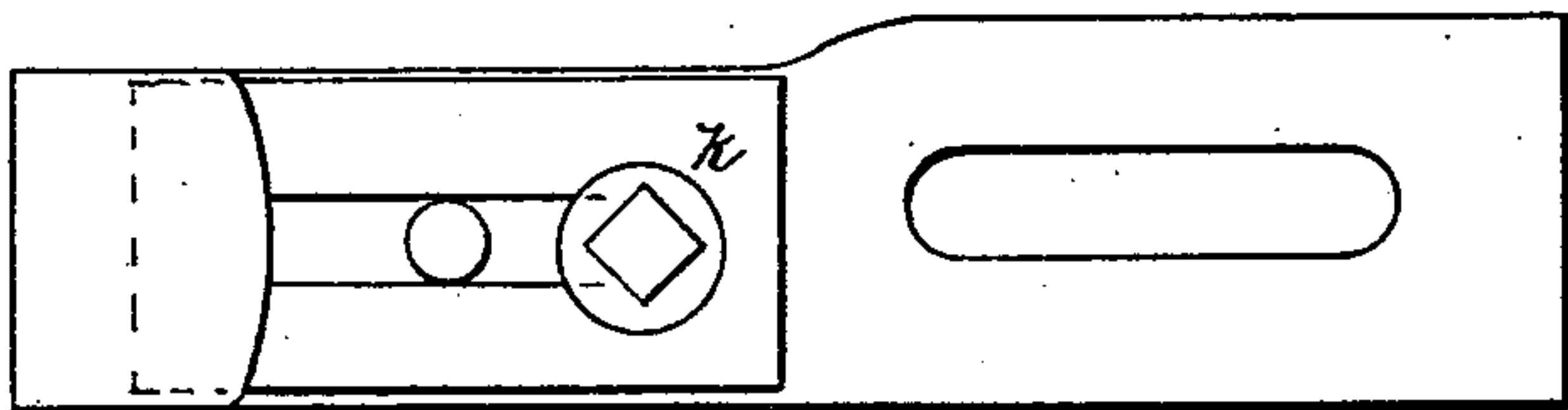


Fig. 4.

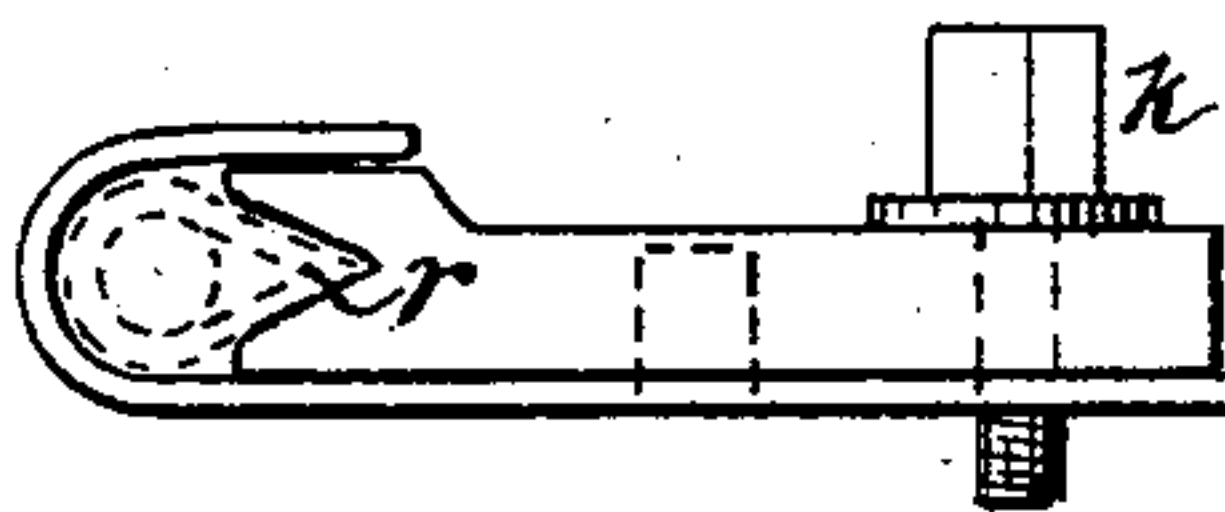


Fig. 5.

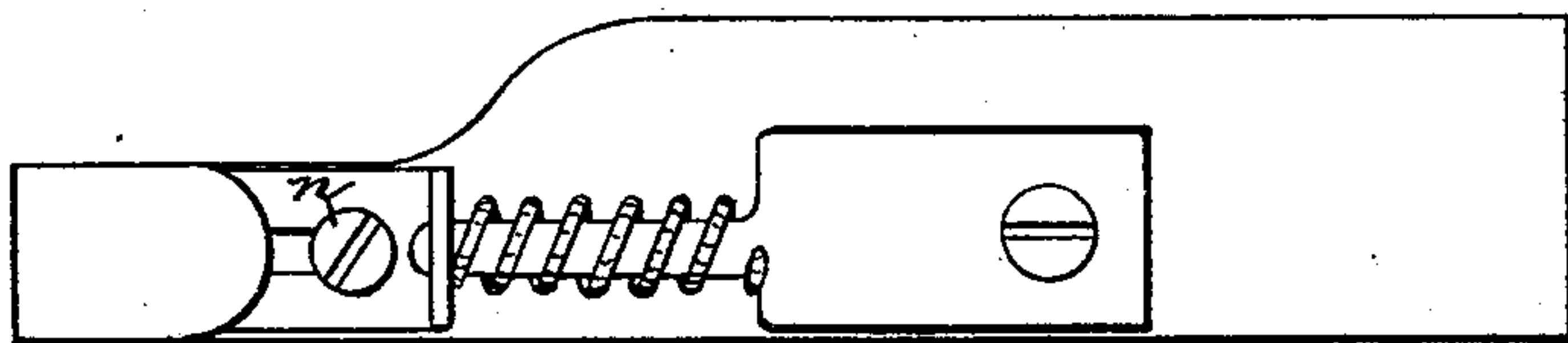


Fig. 6.

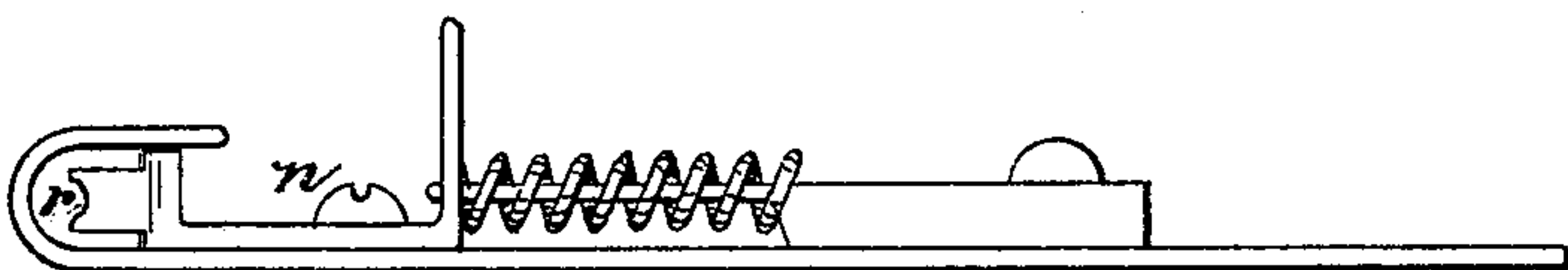


Fig. 7.

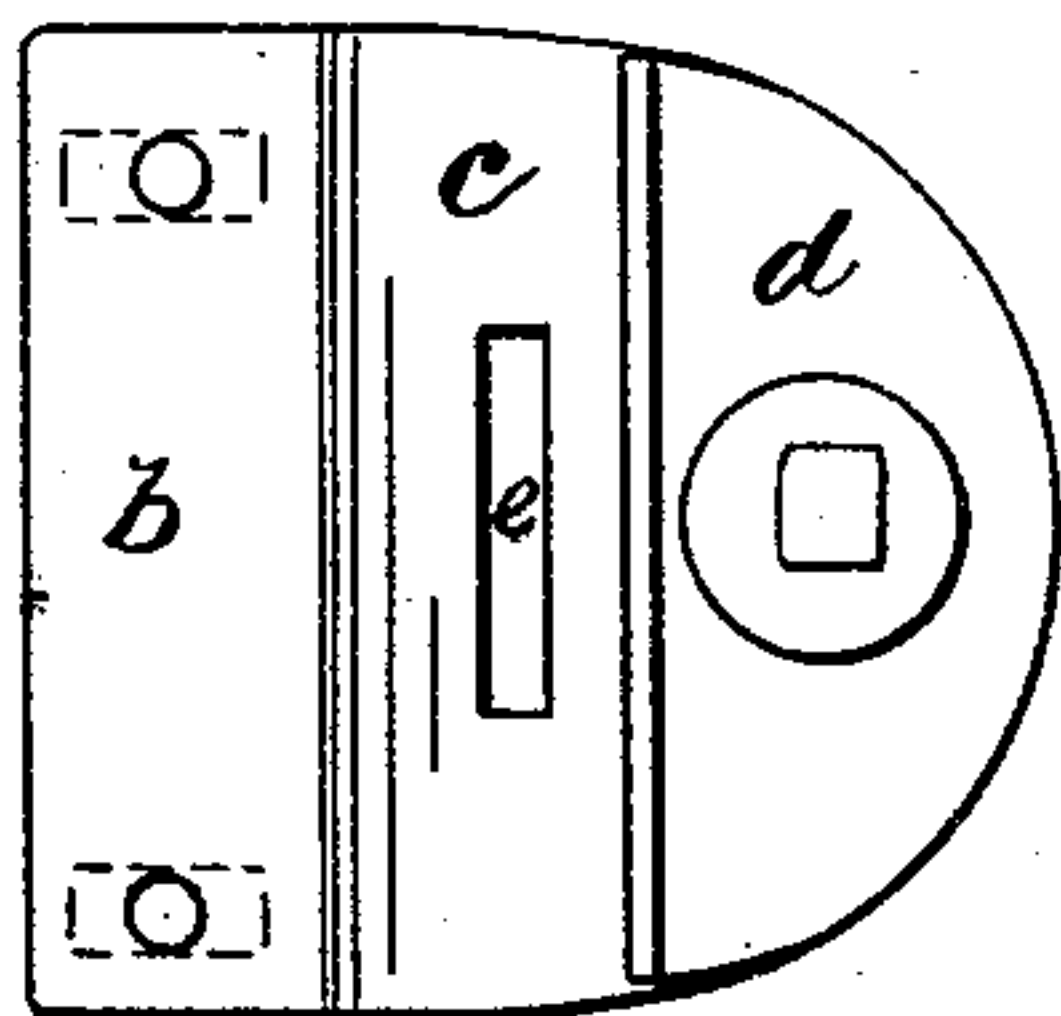


Fig. 8.

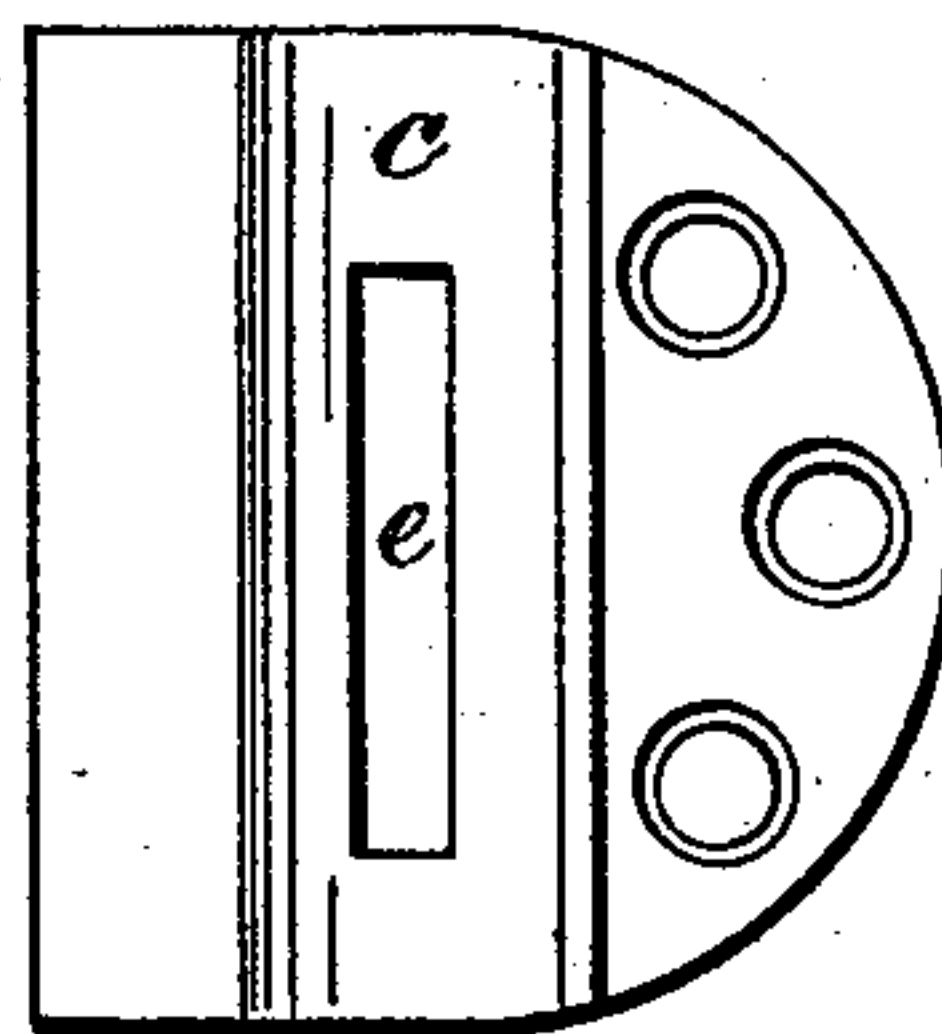


Fig. 10.

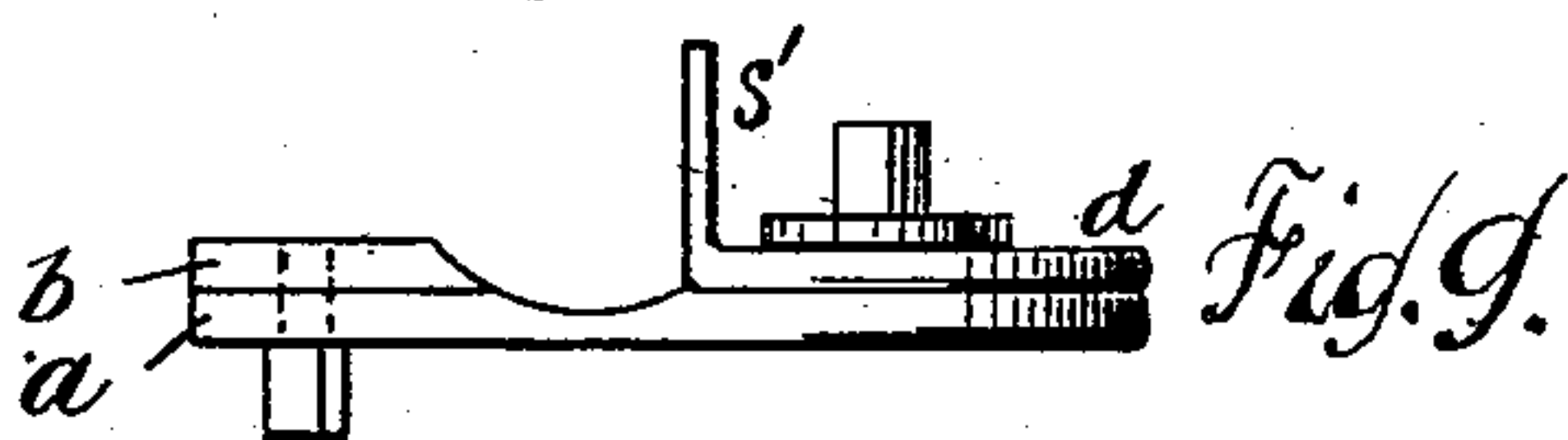


Fig. 9.



Fig. 11.

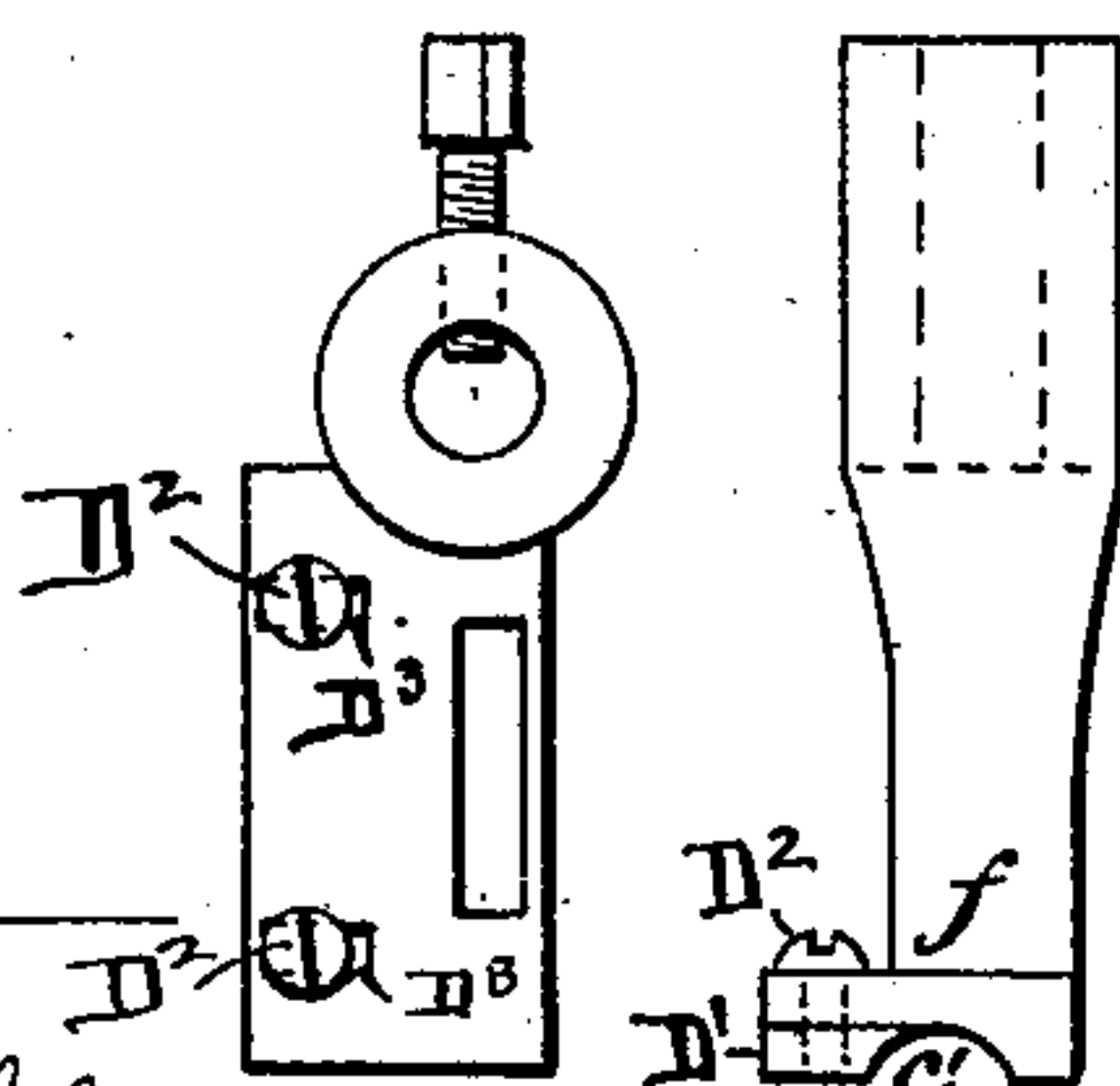


Fig. 12. Fig. 13.

Attest

Charles H. Hill
Chas. T. Winters

Inventor:

John H. Bea, Jr.

O. Drake, atty

UNITED STATES PATENT OFFICE.

JOHN H. BEA, JR., OF NEWARK, NEW JERSEY, ASSIGNOR TO EDWIN R. CAHOONE, OF SAME PLACE.

SEWING-MACHINE GUIDE.

SPECIFICATION forming part of Letters Patent No. 272,847, dated February 27, 1883.

Application filed February 7, 1882. (Model.)

To all whom it may concern:

Be it known that I, JOHN H. BEA, Jr., a resident of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Sewing-Machine Attachments; and I do hereby 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.

The object of this invention is to facilitate the operation of constructing saddle-pads or other parts of harness or articles wherein reeds or like stiffening-strips are secured in pockets running longitudinally along the edges of said pads or articles.

The invention consists in the combinations of parts, all substantially as will be hereinafter fully set forth, illustrated, and embodied in the claims.

Referring to the accompanying drawings, comprised in two sheets, in which similar letters of reference indicate like parts in each of the several figures, Figure 1 is a perspective view of my device as a whole, showing clearly the operative relation of the parts to one another. Figs. 2 and 3 are each respectively a plan view and side elevation of an automatically-adjustable guide adapted to cause the pad-facing, reed, &c., to pass in their relative positions between the throat-plate and presser-foot. Figs. 4, 5, 6, 7 illustrate modifications of said guide. Figs. 8 and 9 are detail views of a grooved throat-plate adapted to be used in my device, and Figs. 10 and 11 are modifications of the same. Figs. 12 and 13 are detail views of a grooved presser-foot adapted to co-operate with the throat-plate aforesaid to hold the reed, pad-facing, pad-lining, and pad-bottom properly beneath the needle. Figs. 14, 15 are views of portions of the said saddle-pads, more clearly showing their manner of construction.

In carrying out my invention, I construct upon the post A of a sewing-machine the grooved throat-plate *a*, which may have adjustable plates *b d* thereon, as shown in Figs. 1,

8, and 9, adapted to increase the width of the groove *c*, to accommodate the various sizes of work; or the said throat-plate *a* may be formed of one piece, as in Figs. 10 and 11. Said throat-plate has therein the usual needle-slot, *e*, as clearly shown in Figs. 1, 8, 9, 10, and 11. Above the throat-plate is constructed a presser-foot, *f*, actuated in the usual manner, but having a co-operating groove, *c'*, therein, running parallel with the groove *c*. I then secure upon the table B the guide adapted to turn the pad-facing *g*, Figs. 14 and 15, around the reed *h*, prior to the passage of the same through the grooves *c c'*. The said guide is composed of a bent body-plate, *i*, forming a curved recess, and an adjustable follower, *j*, working in said recess, the former adapted to give a bend to the leather pad-facing and the latter adapted to hold the reed in said recess. The body-plate *i* is secured to said bed-plate B, and projects over the same until the bent portion comes approximately in a line with the grooves *c c'*, as shown in Fig. 1. The follower may be adjusted in said recess, to adapt the same to various widths of facings, by means of a set-screw, *k*, Figs. 4 and 5; or it may be automatically adjustable, as shown in Figs. 1, 2, 3, 6, and 7, the latter method being preferable, as the pad-facings are liable to be cut unevenly.

In rendering the follower automatic, I connect the same to the body-plate *i*, so that the said follower may freely slide upon said plate by means of a band, *m*, Figs. 1, 2, and 3, or by means of a set-screw, *n*, Figs. 6 and 7, and I connect the extremity of the bent portion *i* with a vertical portion, *o*, of the follower by a helical or other spring, *p*, Figs. 1, 2, and 3; but I do not wish to limit myself to this or any peculiar arrangement of the spring, as the same effect may be produced by arranging the spring as shown in Figs. 6 and 7. The end of the follower engaging with the reed is grooved, as at *r*, so that the follower may retain the pad-facing, as shown in outline in Fig. 5; or the said groove may engage directly with the reed, while the edges of the pad-facing engage with a stop-guard, *s*, set back at an appropriate distance from the extremity of the follower. The stop-guard *s* on the follower may be so lengthened or extended as to pass back of the

1 presser-foot and form the gage s' , as in Fig. 1, although said gage s' may be independent of the follower, as shown in Figs. 8 and 9. The stop guards or gages $s s''$ may pass over the bent portion of the body-plate i and form a stop for the pad-lining t at that point. The several stop-guards are on a line in order to bring the edges of the leather pieces together, as shown in Fig. 14. The grooved presser-foot being provided at its under side with the laterally-adjustable piece D' , formed with the slots D^3 , and provided with suitable screws, D^2 , the longitudinal groove can be widened and narrowed to suit any ordinary work.

15 Upon the bed-plate B , I secure a looped support, u , the loop thereof being at some little distance from the follower, and on an approximate line with the several grooves $c c' r$. Said support is adapted to carry the reed and pad-facings prior to their passage through the guide.

In operating the device I pass the reed and pad-facing through the support u , then through the guide, in the manner shown in Figs. 3 and 5. The pad-lining and pad-bottom $t t'$ are then brought over and under the body-plate i . The whole is then brought between the presser-foot f and throat-plate a , the said presser-foot being brought down upon the same in the usual manner. The sewing-machine is then set in motion and the parts are fed to the machine by any of the usual feed mechanism. The operator co-operates with the machine in holding the parts in position, but paying more especial attention to the pad-lining and pad-bottom $t t'$. The guide operates upon the reed and pad-facing. After the parts are sewed together, the lining and bottom piece are brought around, as shown in Fig. 15, the pad then presenting a ribbed or beaded edge, as will be well understood.

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

1. In a sewing-machine attachment, the combination, with the bent body-plate, of the sliding follower and spring, arranged and operating substantially as and for the purposes herein set forth and shown.

2. The combination, with the bent body-plate, of the sliding follower having a grooved extremity, and a spring, arranged and operating substantially as and for the purposes set forth.

3. In a sewing-machine attachment, the combination of the bent body-plate, with the follower working in the recess of said plate, and having a grooved extremity and stop-guards, and a spring, all arranged and operating substantially as described.

4. The combination, in a sewing-machine, of the grooved presser-foot and grooved throat-plate, the reed and pocket-strip guide, and support u , all arranged and operating substantially as herein set forth.

5. In a sewing-machine attachment, the combination, with the bent body-plate, of a follower, j , having a grooved extremity, r , formed and adapted to engage with the reed, and having the stop-guards s arranged at the sides of said extremity, adapted to engage with the edges of the pad-facings, substantially as herein set forth and shown.

6. In a sewing-machine attachment, the combination, with the bent body-plate i , and follower working therein, adapted to hold the reed and pad-facing in relative position, of the stop-guard s'' , adapted to engage with the pad-lining, all substantially as and for the purposes set forth and shown.

7. The combination, with the bent body-plate i and follower j , of the grooved throat-plate and grooved presser-foot, the former having the gage s' thereon, said parts being arranged and operating substantially as and for the purposes set forth.

8. The combination, with the bent body-plate and follower, of the support u , adapted to support and guide the reed and pocket-strip independently, as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of January, 1882.

JOHN H. BEA, JR.

Witnesses:

CHARLES H. PELL,
CHAS. T. WINTERS.