

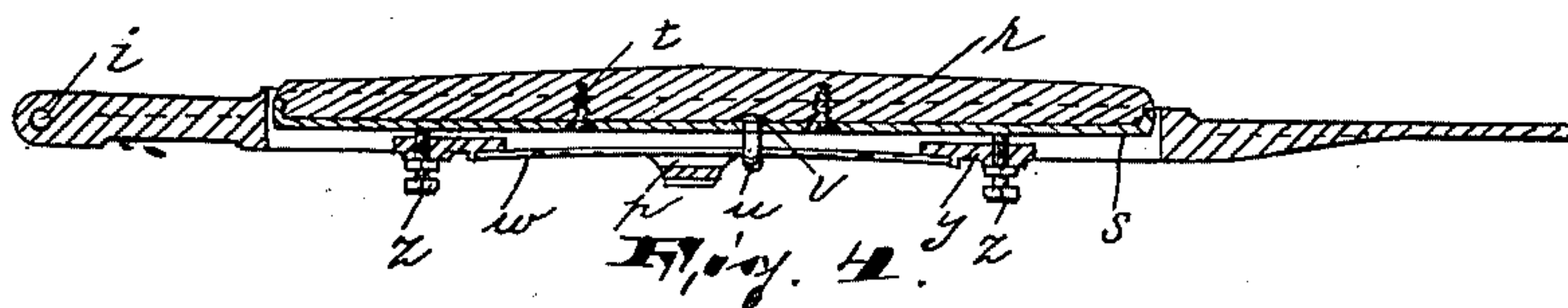
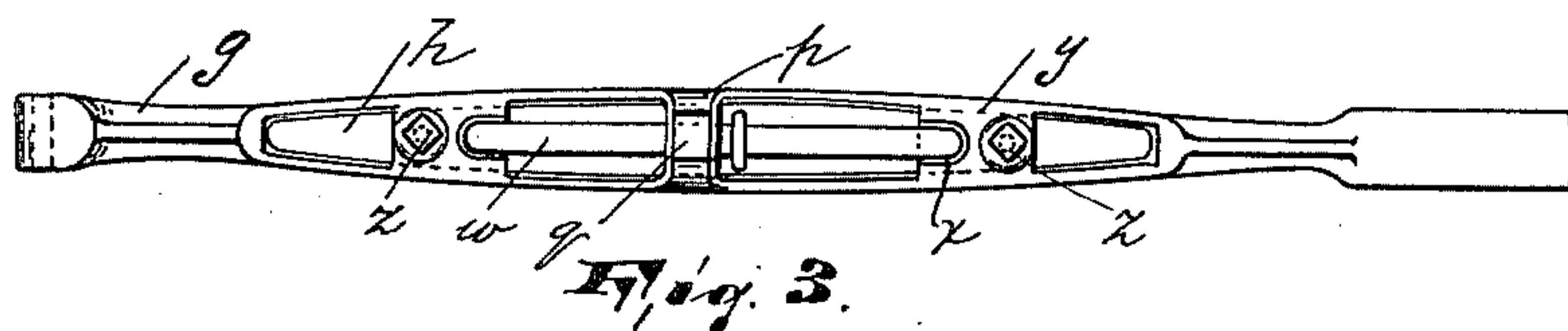
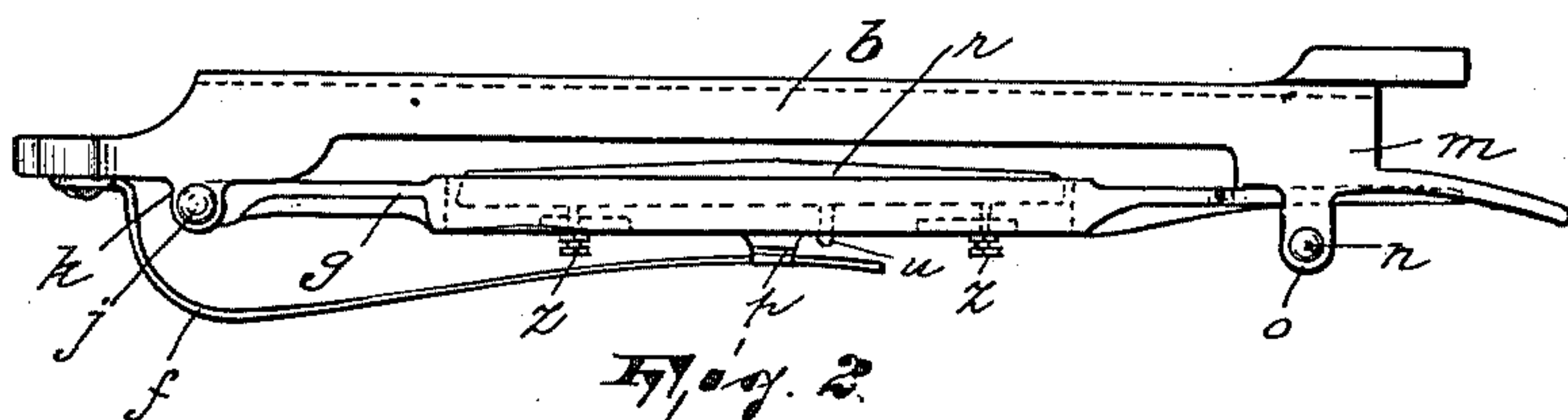
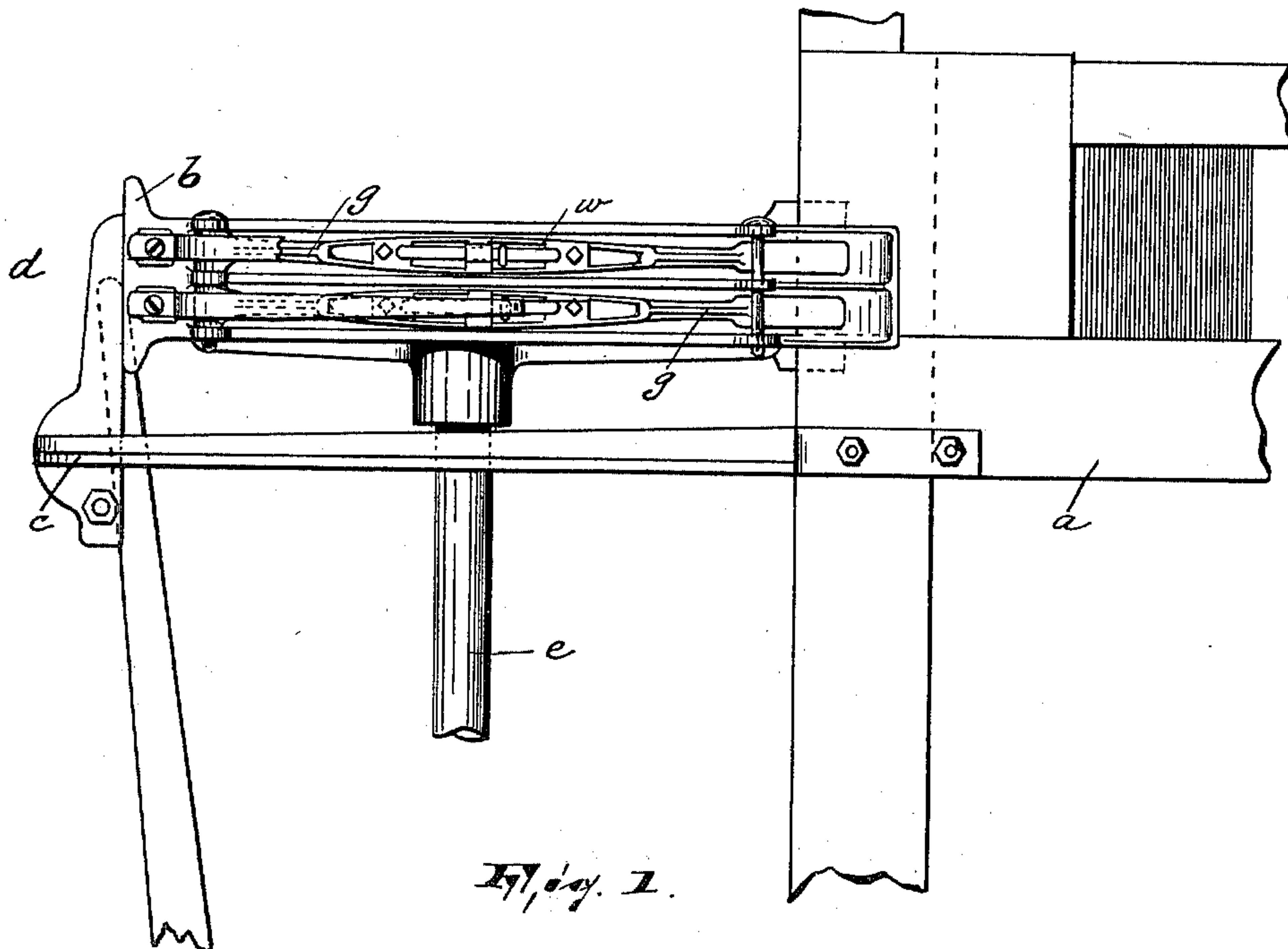
No. 626,510.

Patented June 6, 1899.

**H. TALKS.
BOX LOOM.**

(Application filed Dec. 28, 1898.)

(No Model.)



WITNESSES:

INVENTOR :

Wm. D. Bell.
Robert F. Pollett.

Henry Talks

BY
Partner & Steward
ATTORNEYS

UNITED STATES PATENT OFFICE.

HENRY TALKS, OF PATERSON, NEW-JERSEY, ASSIGNOR OF ONE-HALF TO
WILLIAM MELVIN, OF SAME PLACE.

BOX-LOOM.

SPECIFICATION forming part of Letters Patent No. 626,510, dated June 6, 1899.

Application filed December 28, 1898. Serial No. 700,496. (No model.)

To all whom it may concern:

Be it known that I, HENRY TALKS, a citizen of the United States, residing in Paterson, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Box-Looms; 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.

This invention relates to devices commonly known as "binders" for shuttle-boxes in looms for affording elastic or cushioned stopping means for the shuttles that are driven across the batten into said shuttle-boxes.

The object of the invention is to so construct a device of this nature as to appreciably increase the lasting qualities thereof and to render adjustment with respect thereto feasible, so that the binder can be made to best serve its intended function.

Further objects of the invention are to secure inexpensiveness and simplicity of construction and effectiveness in the operation of said binder.

My invention is fully illustrated in the accompanying drawings, wherein—

Figure 1 is a front view of a portion of a lay or batten and of its adjacent parts, showing the shuttle-boxes provided with my improvements; Fig. 2, a top plan view of the shuttle-box detached and of my improved binder in position therein; Fig. 3, a view in elevation of my improved binder, and Fig. 4 a longitudinal sectional view of the latter.

In said drawings, *a* indicates the lay or batten of the loom, in the extended frame *c* of which are arranged the shuttle-boxes *b*, supported by the box-rod *e* and guided in the bracket *d* and the end portion of the batten, respectively, all of the usual and well-known construction. To one end of each shuttle-box, preferably to its outer end, is secured an elongated (bent or curved) spring *f*, the free end of which bears upon the rear portion of the binder, as hereinafter described. Said binder consists of an elongated metallic frame *g*, having a longitudinal opening *h* formed

in it, substantially midway thereof, and extending for about two-thirds of its length. One end of the body of the binder is penetrated by a vertical orifice *i*, whereby the binder is pivotally secured to the shuttle-box by means of a bolt *j*, extending through lugs *k* near the outer end of said shuttle-box, while the other end of said binder is flattened and adapted to be disposed against a projection *m* on the inner end of the shuttle-box and between said projection and a removable pin *n*, extending through lugs *o*, preferably projecting from each of said projections *m* on the various shuttle-boxes. The opening *h* in the body of the binder is spanned by a bridge-piece *p*, having a depression *q* in its outer face for the reception of the free end of the spring *f*, which bears against said bridge and holds the binder in operative position. In the opening *h* formed in said body is an elongated shoe *r*, preferably having the shape of but being a little smaller than said opening. This shoe is formed of hard wood or any suitable material, and it is backed by a metallic plate *s*, secured to said shoe by screws *t* and having its free ends curved or hook-shaped and embedded in the ends of the shoe.

u designates a staple which penetrates the plate *s* and whose ends are formed into heads *v*.

w indicates an elastic strip forming a spring which projects through the staple *u* and whose ends rest in recesses *xx*, provided in the outer faces of webs *y*, situated one on each side of the bridge *p*.

z indicates a pair of adjusting-screws which penetrate and work in the webs *y* and by the manipulation of which adjustment of the shoe in the body portion of the binder is effected.

It should be remarked that the acting or bearing face of the shoe is not plane, but bulges somewhat for an obvious and well-known reason.

It will be obvious in view of the foregoing that the construction of my improved binder renders it possible not only to adjust the acting or bearing portion thereof—that is to say, the part which I term the "shoe"—so that the binder may be made to act at its best upon the shuttles in stopping the same, but also permits of a removal of said shoe for the pur-

pose of reversing the same, as well as for substituting for it a new one. It will be apparent that the said removal of the shoe from the body portion of the binder is readily effected
5 by simply displacing the ends of the spring *w* from their recesses *x* and withdrawing said spring longitudinally, the adjusting-screws *z* having been first manipulated so as to reduce the tension on said spring. Heretofore
10 where a thin wooden shoe was secured upon the face of an elongated metal bar corresponding to the body portion of my binder, but without having the opening therein, each shoe end sooner or later became spaced from
15 the bar, so as not only to act more or less as a retarding means to the shuttle, but also to form a crevice, which was objectionable, if for no other reason because it afforded a place
20 ment of the shoe in my device overcomes this objection.

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

25 1. A binder comprising a body portion hav-

ing an elongated opening therein, a shoe arranged in said opening and constituting the bearing or acting portion of said binder, an elongated spring connection between said shoe and the body portion, and adjusting
30 means between said shoe and said body portion, substantially as described.

2. A binder comprising a body portion having an elongated opening therein, a shoe arranged in said opening and constituting the
35 bearing or acting portion of said binder, a staple mounted upon the rear face of said shoe, an elongated spring extending through said staple and bearing at its ends upon the body
40 portion of said binder, and adjusting means between said shoe and said body portion, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 21st day of December, 1898.

HENRY TALKS.

Witnesses:

ALFRED GARTNER,
JOHN W. STEWARD.