

No. 631,237.

Patented Aug. 15, 1899.

H. TALKS.  
BINDER FOR LOOMS.

(Application filed Mar. 20, 1899.)

(No Model.)

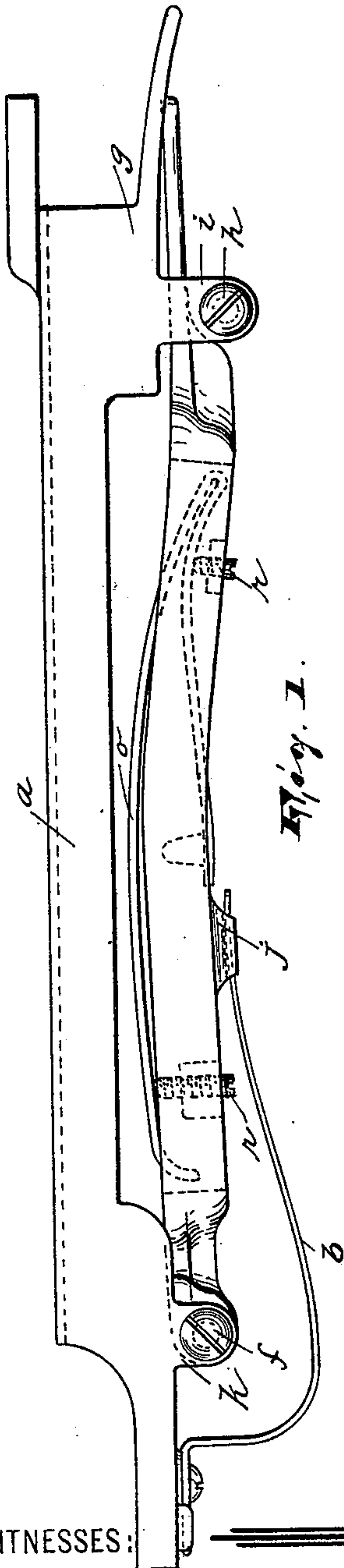


Fig. 1.

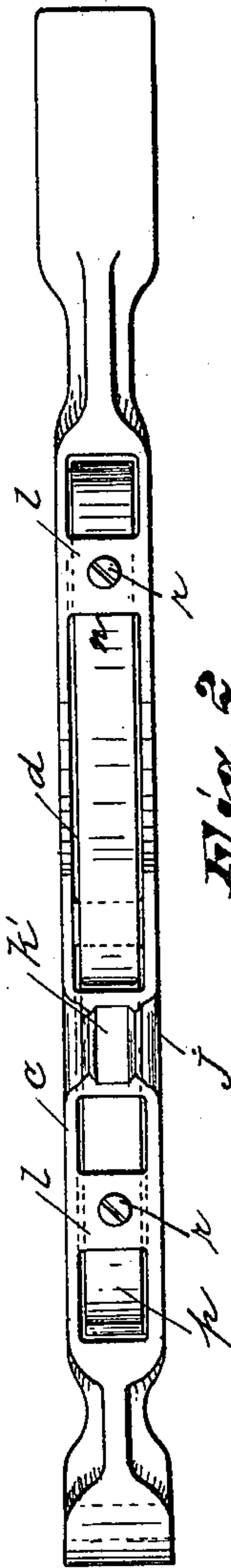


Fig. 2.

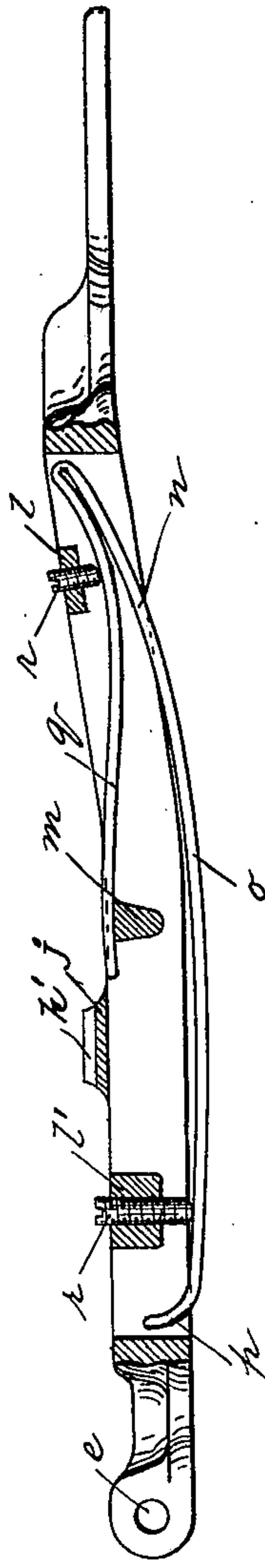


Fig. 3.

WITNESSES:

Wm. D. Bell.  
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BY

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# UNITED STATES PATENT OFFICE.

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

## BINDER FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 631,237, dated August 15, 1899.

Application filed March 20, 1899. Serial No. 709,764. (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 Binders for 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 affording elastic or cushioned stopping means for the shuttles after being driven across the batten of a loom into the 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 purpose.

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

The invention constitutes an improvement upon a similar device shown, described, and claimed in Letters Patent of the United States No. 626,510, granted June 6, 1899.

I have fully illustrated my invention in the accompanying drawings, wherein—

Figure 1 is a top plan view of a shuttle-box detached from the loom and of my improved binder in position therein. Fig. 2 is a view in elevation of my improved binder, and Fig. 3 is a longitudinal sectional view of the latter.

In said drawings, *a* indicates a shuttle-box to one end of which, preferably its outer end, is secured an elongated bent or curved spring *b*, the free end of which is adapted to bear on the rear portion of the binder, substantially as hereinafter described.

Said binder consists of an elongated metallic frame *c*, having a longitudinal opening *d* formed in its substantially midway thereof and extending for about two-thirds of its length. One end of the body of the binder is pene-

trated by a vertical orifice *e*, whereby the binder is pivotally secured to the shuttle-box by means of a bolt *f*, extending through lugs *h* near the outer end of said shuttle-box, whereas the other end of said binder is flattened and adapted to be disposed against a projection *g* on the inner end of the shuttle-box and between said projection and a removable pin *h*, extending through lugs *i*, preferably formed on said projection *g*. The opening *d* in the body of the binder is spanned by a bridge-piece *j*, having a longitudinal depression *k* in its outer face for the reception of the spring *b*, which bears against said bridge-piece and holds the binder in operative position. Near each end of the opening *d* is formed a web or rib *l l'*, which connects the two sides of the body of the binder. A similar web or rib *m* also connects the two sides of the binder and is situated in proximity to the bridge-piece *j* and between the latter and the web *l*.

*n* designates an elongated metallic spring whose body portion has a slight swell or bend therein, as at *o*, and one of whose ends *p* is turned or bent upwardly and the other of whose ends *q* is bent back upon the body portion of said spring, extending to about the middle thereof. Said spring is arranged in the binder under the webs *l l'*, with the free extremity of its rebent portion extending over the rib *m*. Set-screws *r* are arranged in each of the webs *l l'*, and by them said spring is rendered adjustable. It should be remarked that the swelled or curved body portion of the spring normally projects beyond the body of the binder and alone affords a bearing-surface for the shuttle.

In view of the foregoing it will be seen that I have provided a binder which is very strong and inexpensive in construction and which comprises but practically two separable members, which are readily susceptible of adjustment.

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

1. A binder consisting of an elongated frame, a curved metallic spring having one of its ends rebent, a rib or web constituting a portion of said frame and engaged by said rebent end of the spring, and means coacting



with said rib or web and acting reversely thereto and against said spring for maintaining the latter in position, substantially as described.

5 2. A binder consisting of an elongated frame having a longitudinal opening therein and webs or ribs arranged in and spanning said opening, a bent metallic spring also arranged in said opening and engaging one of  
10 said webs or ribs, and adjusting means operatively disposed between said spring and the other webs or ribs, substantially as described.

15 3. A binder consisting of an elongated metallic frame having a longitudinal opening therein and several ribs or webs spanning said opening, and an elongated metallic spring disposed in said opening one side of said ribs or webs, one end of said spring being rebent and

extending the other side of the intermediate rib or web, substantially as described. 20

4. A binder consisting of an elongated metallic frame having a longitudinal opening therein and several ribs or webs spanning said opening, an elongated metallic spring disposed in said opening one side of said ribs or webs, one end of said spring being rebent and extending the other side of the intermediate rib or web, and means for adjusting said spring, substantially as described. 25

In testimony that I claim the foregoing I  
have hereunto set my hand this 17th day of  
January, 1899. 30

HENRY TALKS.

Witnesses:

ALFRED GARTNER,  
LOUISE SNYDER.