E. S. PIKE.

Heddle-Frame.

No. 163,691. Patented May 25, 1875.

Fig. 1.

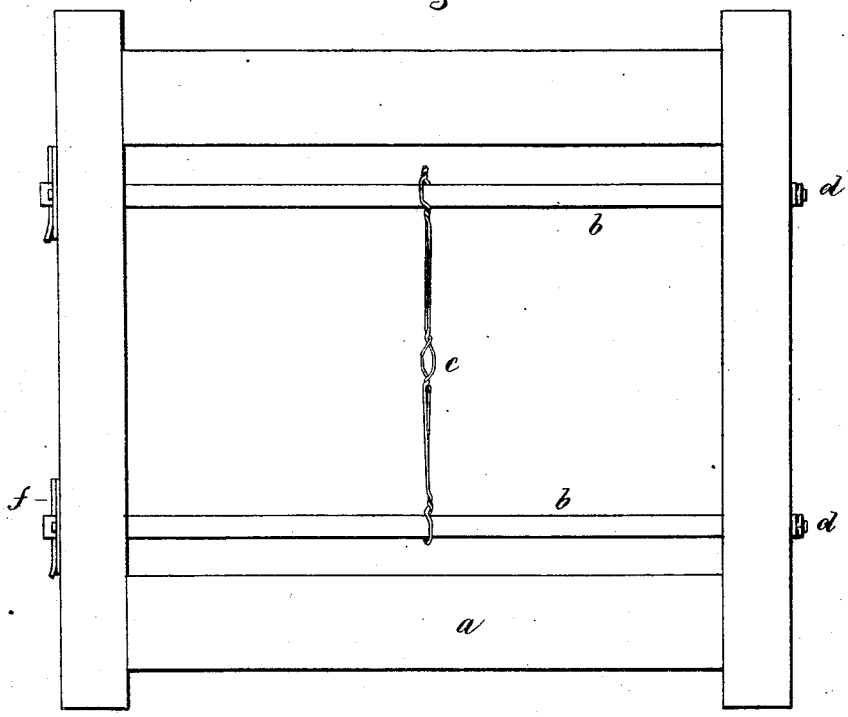
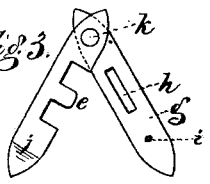


Fig. 2.

Fig. 3.



Witnesses.
L. W. Latimer.
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Inventor.
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UNITED STATES PATENT OFFICE.

EDWIN S. PIKE, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO GEORGE CROMPTON, OF SAME PLACE.

IMPROVEMENT IN HEDDLE-FRAMES.

Specification forming part of Letters Patent No **163,691**, dated May 25, 1875; application filed April 24, 1875.

To all whom it may concern:

Be it known that I, EDWIN S. PIKE, of Worcester city and county, in the State of Massachusetts, have invented an Improved Heddle-Frame, of which the following is a specification:

This invention relates to heddle-frames for use in looms; and consists in a heddle-locking device to be attached to or removed from the heddle-holding bars, to confine the said bars in position in the heddle-frames, to permit their easy insertion or removal, and at the same time leave the sides of the frame entirely unobstructed.

Prior to this my invention, the bars in heddle-frames have been held by pins passed through the sides of the frames and bars, and such pins get loose, and, projecting, catch on adjacent frames, and wear them and strain the harness-cording. These bars have also been held by means of catches secured to the heddle-frames at sides and ends, and the frames have been cut for their reception.

With my invention it is not necessary to cut the frame, as my heddle-bar locking device is fitted directly to the heddle-bar.

Figure 1 is a front view of a heddle-frame with my improved heddle-bar locking device applied. Fig. 2 is a sectional end view of a heddle-frame with the locking device applied to the bar, and Fig. 3 is a view of the heddle-bar locking device open to be applied to a heddle-bar.

In the drawing, *a* is a heddle-frame of usual form, having mounted in it heddle-bars *b b*, and on which are strung heddles *c* of any well-known construction. These bars have at one end nuts or heads *d*, and at their opposite ends are perforated or slotted, to receive the tongues *e* of the heddle-bar locking devices *f*. This locking device consists of a base, *g*, provided with a slot, *h*, to fit over the end of the bar, and with a plate, *j*, pivoted thereto at *k*, and provided with a tongue, *e*, to enter the slot in the end of the bar *b*.

To apply one of these locking devices, open it, as shown at Fig. 3, pass the plate *g* over the end of the bar *b*, the latter projecting through opening *h*, then turn *j*, as shown in Fig. 2, and pass the tongue *e* through the slot in *b*. This locking device is easily and quickly applied, is cheaply constructed, and effectually holds the bar securely.

To hold the parts *j g* firmly together, and prevent any tendency to slip, the one on the other, one of the plates, as *g*, may be provided with an indentation or depression, as at *i*, and the other with a corresponding depression or indentation, so as to serve as holding devices.

This my improved locking device is not attached to the heddle-frame, but only to the heddle-bar, and this is the peculiarity of my invention, and wherein it differs from all others known to me.

I claim as my invention—

1. A heddle-bar locking device adapted to be secured, substantially as described, to the heddle-bar, to hold it in position.

2. The combination with the heddle-frame, and its bars of heddle-bar locking devices applied only to the heddle-bars, and removable therefrom, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWIN S. PIKE.

Witnesses:
J. A. WARE,
J. B. SYME.