

T. CLEGG.
Loom-Harness.

No. 147,238.

Patented Feb. 10, 1874.

Fig. 1.

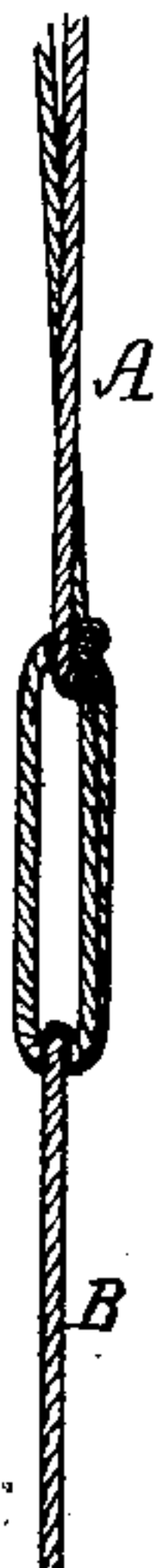
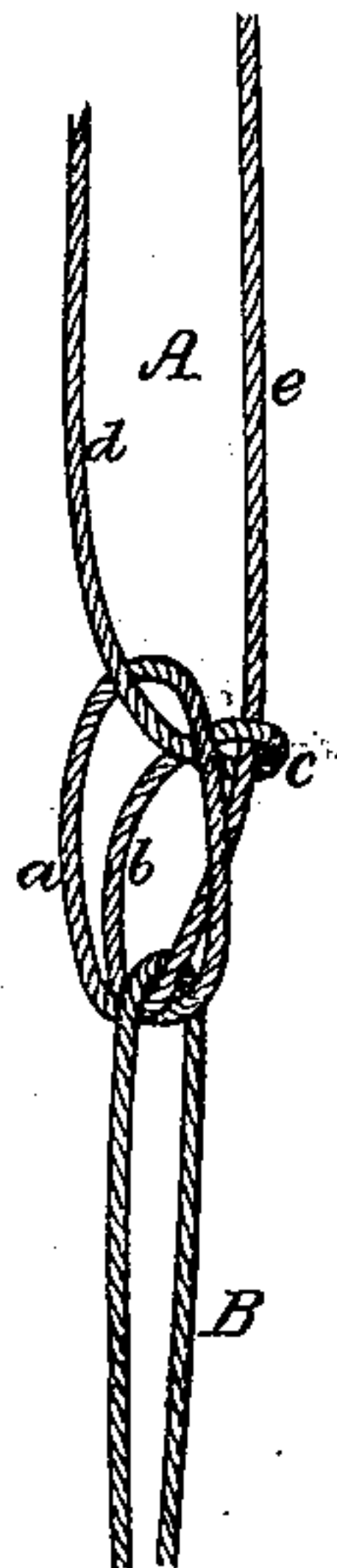


Fig. 2.



Fig. 3.



Witnesses.
S. W. Piper.
J. R. Snow.

Thomas Clegg.
by his attorney.
R. L. Edger.

UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN LOOM-HARNESS.

Specification forming part of Letters Patent No. **147,238**, dated February 10, 1874; application filed December 11, 1873.

To all whom it may concern:

Be it known that I, THOMAS CLEGG, of Lawrence, of the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Loom-Harness; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a front view, and Figure 2 a side view, of one of the eyes and its supporting parts. Figure 3 represents the eye in a loosened state, and showing its mode of formation.

In my improved harness each heddle-eye, instead of being composed of a single loop of cord, as usually made, consists of two loops of like size supported by the upper cord or cords, and having the lower cord run through both of said loops, in order to bring them into the requisite position to receive and support a warp-thread.

In the drawings, A denotes the upper cord, of which the eye is composed, B being the lower or supporting cord.

In forming the new or improved eye the cord A is looped twice, as shown at *a b*, through the loop of the cord B, after which the cord is carried around itself, as shown at *c*, and next run through the two loops, all being as represented in Fig. 3. The free parts *d e* are next drawn or pulled out simultaneously, so as to

stretch the eye into the form shown in Figs. 1 and 2.

In this way a double-looped eye will be made which, while in use, will last very much longer than, if not twice as long as, will a single-looped eye under like circumstances.

By having the eye composed of two loops arranged with the lower support-cord B in manner is shown, the eye will be supported to better advantage for either receiving or holding the warp.

From the above it will be seen that each heddle of the harness, by my invention, is composed of the two cords A B and two loops, *a b*, with the lower cord B run through the said two loops. The upper cord A, by my mode of construction, serves not only to compose the two loops, but to support them in the harness.

I claim—

In a loom-harness, each heddle as composed of two eye-supporting cords, A B, and two loops, *a b*, arranged as described, constituting the eye, and having the lower cord B run through such two loops.

THOMAS CLEGG.

Witnesses:

R. H. EDDY,
S. N. PIPER.