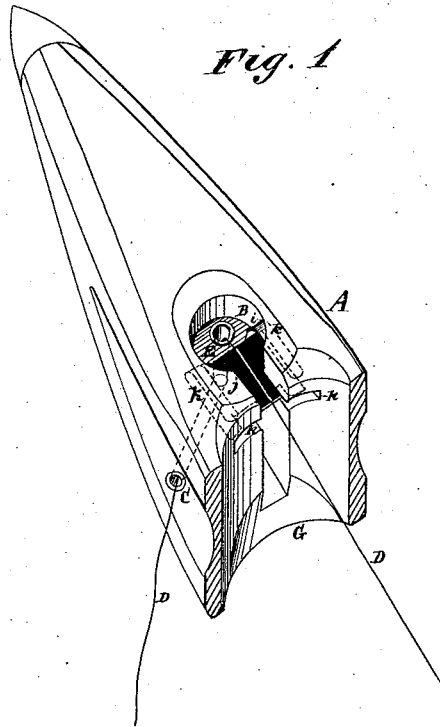


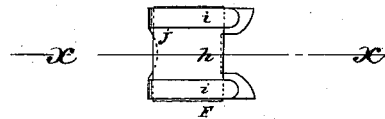
J. M. PECKHAM.  
Loom-Shuttle.

No. 161,702.

Patented April 6, 1875.



*Fig. 2*



*Fig. 3*



WITNESSES:

*A. W. Almqvist*  
*A. J. Terry*

INVENTOR:

*J. M. Peckham*  
BY *Wm. L. Terry*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JAMES M. PECKHAM, OF FALL RIVER, MASSACHUSETTS.

## IMPROVEMENT IN LOOM-SHUTTLES.

Specification forming part of Letters Patent No. 161,702, dated April 6, 1875; application filed March 1, 1875.

*To all whom it may concern:*

Be it known that I, JAMES M. PECKHAM, of Fall River, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Shuttle-Tension Device, of which the following is a specification:

This invention relates to the construction of shuttles, used in weaving cotton goods; and consists in the device for giving the thread tension.

Figure 1 is a perspective view of the tension end of a shuttle, showing my improved tension device applied. Fig. 2 is a side view of the metallic holder, detached. Fig. 3 is an edge view of the same, showing the cloth secured therein.

Similar letters of reference indicate corresponding parts.

A represents a shuttle constructed similar to the shuttles now in use. B is the eye through which the thread passes, and is carried out of the shuttle obliquely through the eye C, in the side of the shuttle. D represents the thread. To give the thread the proper tension a piece of woolen cloth or felt is usually fastened by means of tacks in the bottom of the eye-recess E, over and in contact with which the thread is passed.

Much time is spent in putting in and properly adjusting this cloth, as it has to be renewed many times each year, at least once every month.

My improvement consists in a metallic hold-

er, F, for the tension-cloth and grooves *k* cut in the shuttle from the shuttle-opening G to the eye-recess E. These grooves allow the holder containing the tension-cloth to be shoved in to hold the tension-cloth in the proper position. The holder F is made of a single piece of sheet metal, *h*, having two tongues, *i*, doubled over onto the plate. The cloth *j* is slipped in between the plate and the tongues. The holder is slipped into the grooves, and the thread is passed over the cloth, as seen in Fig. 1, which affords the necessary tension.

With this holder the cloth is renewed in one-tenth the time required by the usual method. By using my tension-holder, the thread is made to pass over a longer surface, and consequently more friction is obtained, and any kind of woolen cloth may be used for the tension. The tension draws the weft together, and makes a smoother selvage, and a superior quality of goods.

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

The tension-cloth holder F, constructed substantially as described, in combination with a shuttle body, having grooves *k*, for the purpose set forth.

JAMES M. PECKHAM.

Witnesses:

W. EDWARD STOW,  
B. F. WINSLOW.