

A. EDWARDS.
Loom-Shuttle.

No. 167,753.

Patented Sept. 14, 1875.

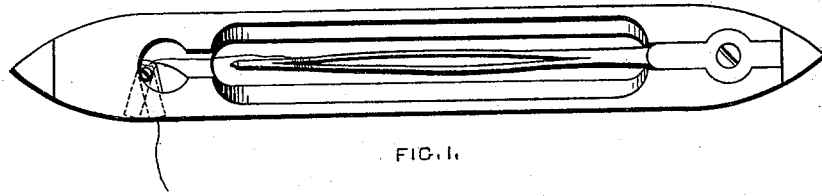


FIG. 1.

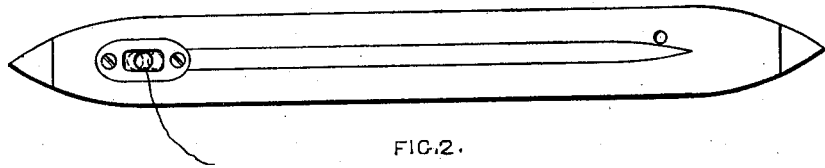


FIG. 2.

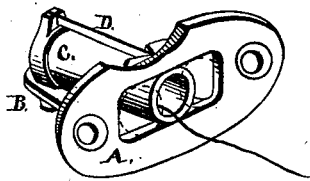


FIG. 3.

WITNESSES

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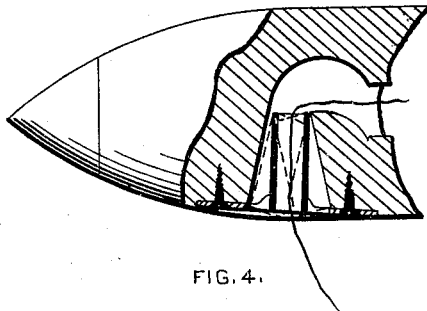


FIG. 4.

UNITED STATES PATENT OFFICE.

ADDISON EDWARDS, OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN LOOM-SHUTTLES.

Specification forming part of Letters Patent No. **167,753**, dated September 14, 1875; application filed July 2, 1875.

To all whom it may concern:

Be it known that I, ADDISON EDWARDS, of Providence, in the State of Rhode Island, have made certain new and useful Improvements in Shuttles; and I do hereby declare that the following specification, taken in connection with the drawing making a part of the same, is a full, clear, and exact description thereof.

Figure 1 is a top view of my improved shuttle. Fig. 2 is a side view. Figs. 3 and 4 show the construction of the yarn-eye.

The object of my invention is to relieve the woof from any sudden jerk, which has heretofore resulted from each change in the direction of the shuttle; and consists in the improvements hereinafter described.

The shuttle having received its blow from the picker, starts suddenly forward to traverse the warp. The woof having been left slack from the previous movement of the shuttle, becomes again taut when the shuttle reaches the middle of the shed. The great rapidity with which the shuttle moves, and the looseness of the woof-yarn at the outset of each movement of the shuttle, result in a sudden jerk upon the woof when the shuttle reaches that point in the shed where the woof becomes

again taut, which jerk draws the selvage and often breaks the woof itself.

In my invention, instead of the stationary yarn-eye, I make use of a reciprocating or yielding one, as shown in Figs. 3 and 4.

A is a slotted metal face-plate, having an arm, B, extending back, to which is pivoted a tube, C, which is held in position by the spring D. The yarn passes through the tube C, which gives or moves within its slot in the face-plate A whenever the pull or jerk upon the woof-yarn is sufficient to overcome the resistance of the spring D.

My improvement prevents any sudden strain or jerk upon the yarn, thus making a smooth selvage, and saving much time and inconvenience resulting from the breaking of the yarn.

What I claim as my invention, and desire to secure by Letters Patent, is—

A loom-shuttle provided with a yielding eye, consisting of a tube, C, which is pivoted as described, and actuated by a spring, D, substantially as and for the purpose specified.

ADDISON EDWARDS.

Witnesses:

WALTER B. VINCENT,
G. M. CARPENTER, Jr.