J. H. PEASLEY.

Loom-Shuttle.

No. 160,544. Patented March 9, 1875.

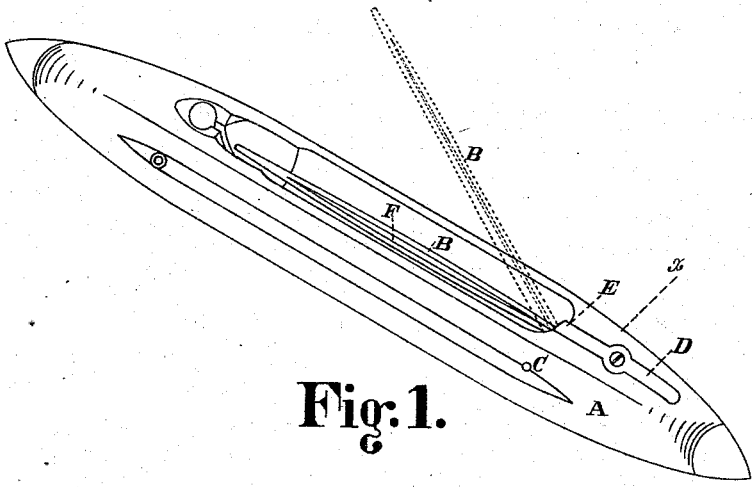

Fig. 1.

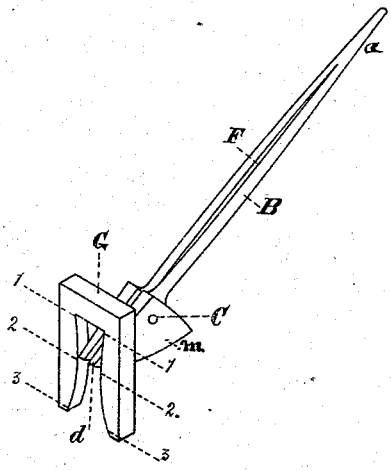

Fig. 2.

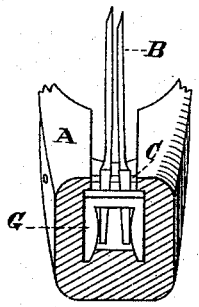

Fig. 3.

Witnesses:
Samuel C. Oliver,
H. E. Metcalf.

Inventor:
James H. Peasley,
Per C. A. Shaw,
Atty.

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

JAMES H. PEASLEY, OF LAWRENCE, MASSACHUSETTS, ASSIGNOR OF ONE-HALF HIS RIGHT TO CHARLES T. WOODBURY, OF SAME PLACE.

IMPROVEMENT IN LOOM-SHUTTLES.

Specification forming part of Letters Patent No. **160,544**, dated March 9, 1875; application filed February 3, 1875.

To all whom it may concern:

Be it known that I, JAMES H. PEASLEY, of Lawrence, in the county of Essex, State of Massachusetts, have invented a certain new and useful Improvement in Loom-Shuttles, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which my invention appertains to make and use the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is an isometrical perspective view, showing the spindle in position for use; Fig. 2, a sectional view, showing the spindle elevated to remove or put on the bobbin; and Fig. 3, a vertical lateral section taken on the line *x*, Fig. 1.

Like letters of reference indicate corresponding parts in the different figures of the drawing.

My invention relates more especially to that class of loom-shuttles in which cops are employed; and consists in a novel construction and arrangement of the parts, as hereinafter more fully set forth and claimed, by means of which the cop is effectually held when in use, and can be more readily doffed or inserted and removed than in shuttles of this character, as ordinarily constructed.

In the drawing, A is the body of the shuttle, and B the spindle. The spindle is composed of two parts, which are joined at one end to form the point *a*, the other ends being separate and pivoted at C, forming the heel *m*. A fixed slotted bar, G, is inserted vertically in the shuttle at the rear of the pin C, the slot being uneven in its formation, or narrowest on the line 2 and widest on the line 3, that part on the line 1 being but slightly wider than at 2. The parts forming the heel *m* taper laterally from the pin C to the points *d*, which project into the slot in the bar G, as shown in Fig. 2.

From the foregoing the nature and operation of my invention will be readily obvious to all conversant with such matters, that when the spindle is elevated, as shown by the dotted lines B in Fig. 1, the ends *d* will be depressed or brought nearly into that part of the slot on the line 3, Fig. 2, in which position the opening F will be nearly closed by the expansive action of the body of the spindle, and the cop may readily be placed in position without disarranging the yarn or causing the usual waste. If, now, the spindle is depressed, the cop being on the same, the ends *d* will be brought into the narrowest part of the slot in the bar G, pressing them together, thereby causing the sides of the spindle B to expand laterally, enlarging the opening F and firmly securing the cop for use, in a manner which will be readily apparent without a more explicit description.

A spring, D, having its free end E pressing upon the upper side of the heel *m*, is represented in Fig. 1; but this may be dispensed with when the slot in the bar G is made as shown in Figs. 2 and 3, or slightly wider on the line 1 1 than it is on the line 2 2, or when it is so formed that in depressing the spindle the ends *d*, after passing that part of the slot on the line 2 2, will expand, or be separated sufficiently by the expansive action of the body B to keep the spindle down or in a proper position for use without the aid of the spring. It will be obvious, therefore, that the bar G may have its slot of the same width on the line 1 1 as on the line 2 2 without departing from the spirit of my invention.

I am aware that shuttles have heretofore been constructed with divided or expansive spindles, and I therefore do not claim the same broadly; but,

Having thus explained my invention, what I claim is—

In a loom-shuttle, the spindle B, constructed substantially as described, in combination with the slotted bar G, having the narrow opening on the line 2 2 and wide opening on the line 3 3, arranged to operate substantially as and for the purpose specified.

JAMES H. PEASLEY. [L. S.]

Witnesses:

C. L. AUSTIN,

SIDNEY POORE.