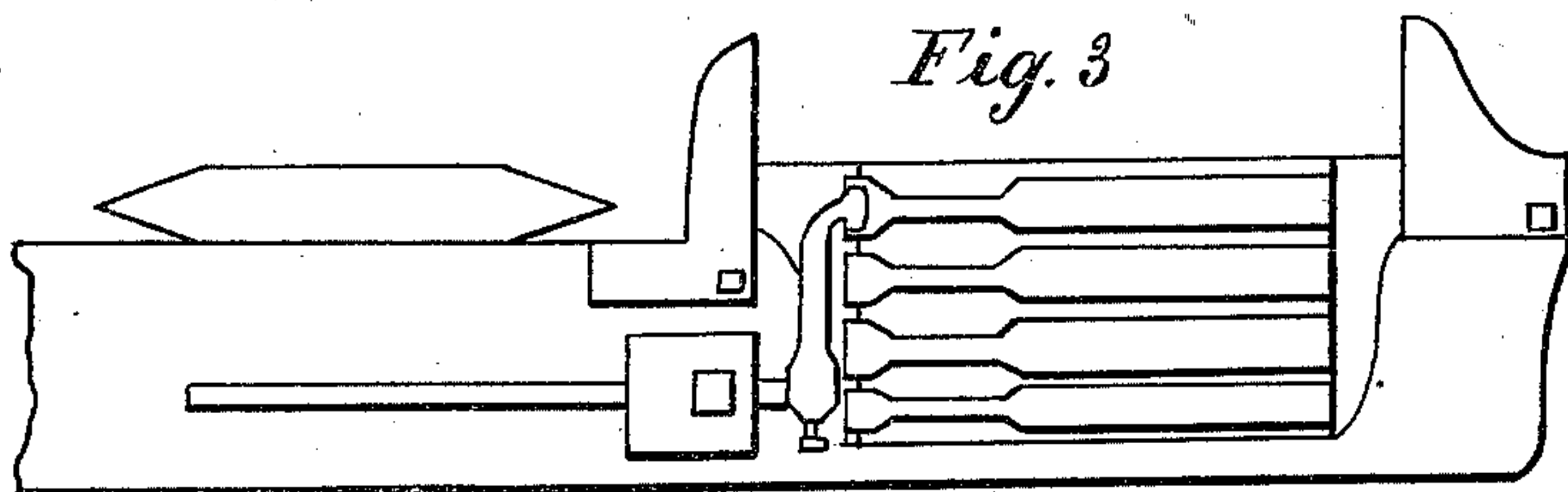
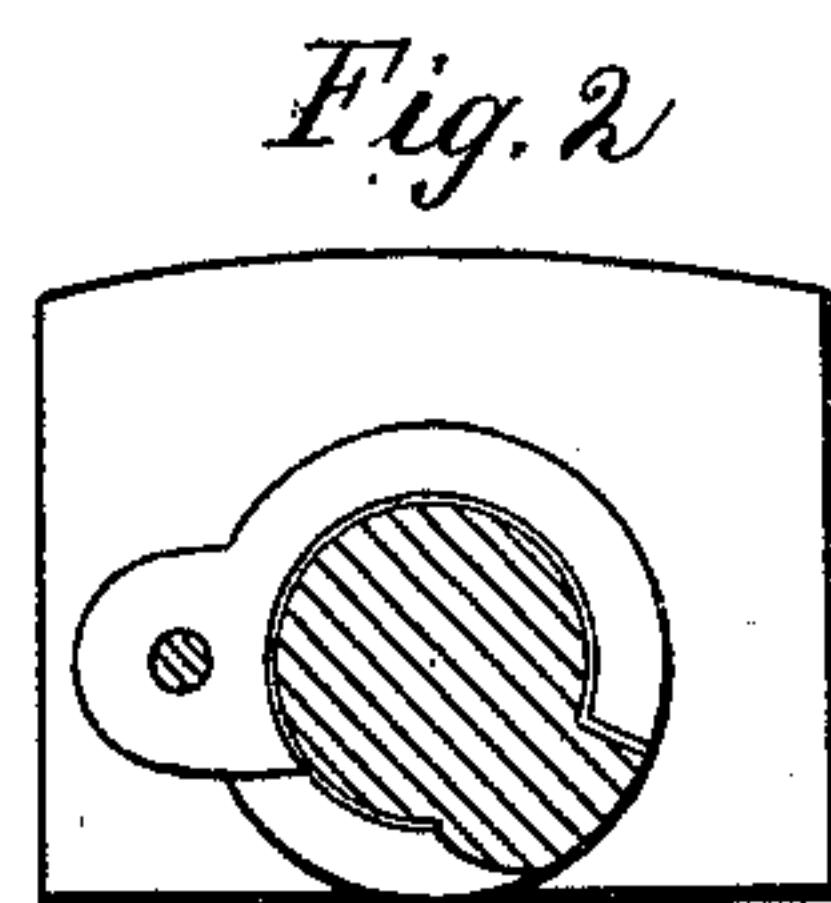
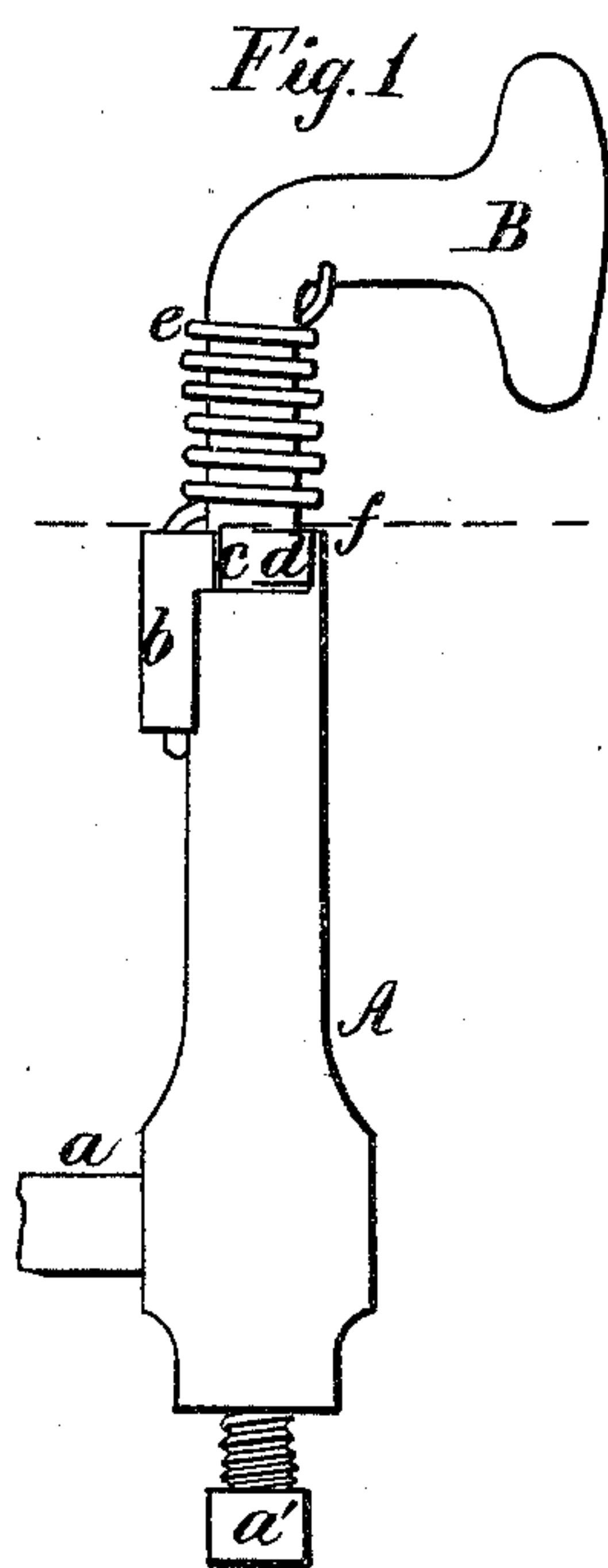


*E. S. Laney.*  
*Stop for Loom.*

*N<sup>o</sup> 77,820.*

*Patented May 12, 1868.*



*Witnesses*  
*W. C. Ashkett*  
*Wm A Morgan*

*Inventor*  
*E. S. Laney*  
*per Munnell*  
*Attorneys*

# United States Patent Office.

ENOS S. LANEY, OF WATERLOO, NEW YORK, ASSIGNOR TO HIMSELF AND  
ENOS LANEY, OF SAME PLACE.

*Letters Patent No. 77,820, dated May 12, 1868.*

## IMPROVEMENT IN FINGER FOR SHUTTLE-STOP ROD IN LOOMS.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, ENOS S. LANEY, of Waterloo, in the county of Seneca, and State of New York, have invented a new and useful Improvement in Fingers for Shuttle-Stop Motions for Looms; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a side elevation of my improved finger.

Figure 2, a section of the same on the line *x x* of fig. 1.

Figure 3 shows, in red, the application of the same to the lay of a loom.

Similar letters of reference indicate like parts.

The nature of my invention relates to improvements in fingers for shuttle-stop motions for looms, whereby the same are made less liable to get out of proper position on the oscillating-rod, which actuates the touch-off finger, by reason of the sudden shocks and strains to which they are exposed from the action of the shuttle.

It consists in constructing the said fingers in two parts, one provided with a tubular socket in the end, and the other part fitted to the said socket, and uniting the two by a strong torsion-spring, which will yield to the sudden shocks and strains to which the finger is subject, and thereby render them less liable to slip around on the oscillating-rods to which they are attached, as will be more fully described on reference to the accompanying drawings.

A represents the main portion of my improved finger, which is secured to the rod *a* by a set-screw, *a'*.

B represents the upper bent end of the finger, which bears against the shuttle-binders.

The part A is provided with a tubular socket in its upper end, and a lug on one side, which has a hole cast or bored through it vertically.

A recess, C, is also provided in the upper end of the part A.

The lower end of the part B is fitted to the socket in the part A, so as to oscillate freely therein, and is provided with a lug, *d*, which sets in the recess C of the upper end of the part A.

A strong torsion-spring, *e*, is wound loosely around the part B, having one end fitted to the lug *b* of the part A, and the other to the part B, which constantly bears the parts, so as to keep the lug *d* of the part B against the shoulders *f* of the recess C in the part A.

In the application of my improved finger to the stop-motions of looms, it is secured to the oscillating-rod *a*, which carries and actuates the touch-off finger, and bears, with its upper end, against the shuttle-binder, by which it is actuated.

I have found great difficulty in preventing the fingers from slipping around on the said rods by the strain caused by the sudden shocks communicated to them through the shuttles entering the boxes, or when suddenly thrown out by the pickers.

By the arrangement of my improved finger in two parts, and connecting them by the spring, as shown, this difficulty is very greatly obviated, as the spring will yield to these sudden strains, but is of sufficient strength to hold the two parts together with sufficient rigidity to properly actuate the rod *a*, and of sufficient flexibility to momentarily yield to the inertia of the said rod *a*, thereby very greatly relieving the strain on the point, when the finger and rod are joined together.

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

The improved finger herein described, when constructed substantially as and for the purpose specified.

ENOS S. LANEY.

Witnesses:

GEORGE MARSDEN,  
RICHARD EDWARDS.