

J. B. BANCROFT.

Shuttle-Guides for Looms.

No. 134,837.

Patented Jan. 14, 1873.

Fig 1.

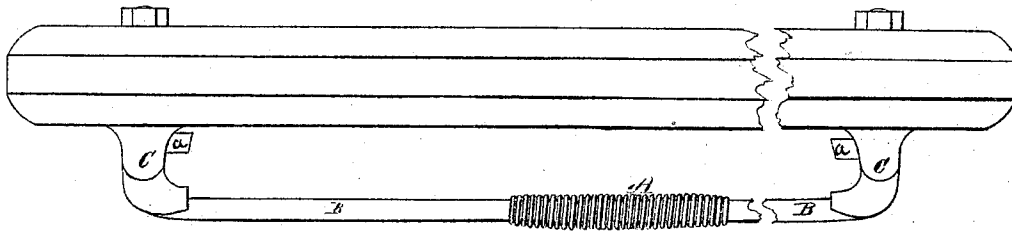


Fig 2.

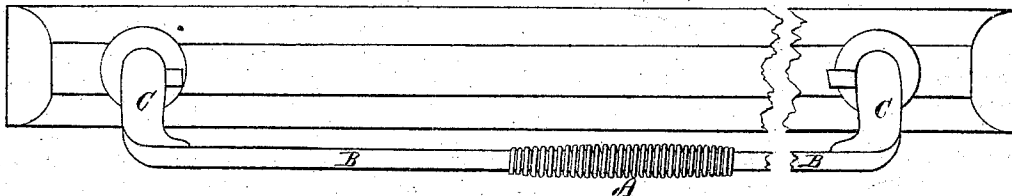


Fig 3.

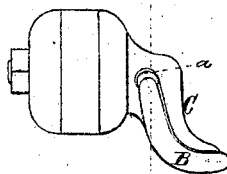


Fig 4.

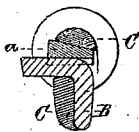
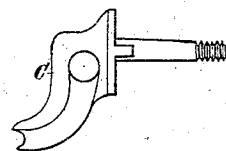


Fig 5.



Witnesses:

S. A. Piper

L. N. Miller

Joseph B. Bancroft,

by his attorney.

R. H. Lee

UNITED STATES PATENT OFFICE.

JOSEPH B. BANCROFT, OF HOPEDALE, MASSACHUSETTS.

IMPROVEMENT IN SHUTTLE-GUIDES FOR LOOMS.

Specification forming part of Letters Patent No. 134,837, dated January 14, 1873.

To all whom it may concern:

Be it known that I, JOSEPH B. BANCROFT, of Hopedale, of the county of Worcester, of the State of Massachusetts, have invented a new and useful Improvement in Shuttle-Guides for Looms; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawing, of which—

Figure 1 is a top view; Fig. 2, a front elevation; and Fig. 3, an end view of one of my improved shuttle-guides.

My shuttle-guide, although in some respects like, yet differs materially from that shown in the United States Patent No. 86,668, which consists of a rod or cord resting in or upon suitable bearings in braces or brackets, and operated or kept in position by means of an elastic connection, all as shown in such patent.

My shuttle-guide is an elastic one, but instead of being a band, elastic from end to end, or a rod held in place by elastic connections, consists of a long helical spring, A, of wire, and two inelastic bands or straps, B B. The said straps or bands extend in opposite directions from the spring at its ends to which they are connected, and will thence run through guide-grooves in curved brackets C C, and finally laterally through such brackets, a wedge, *a*, being arranged in each bracket alongside of its band in order to hold the two in connection. On setting back the wedge the band may be drawn forward in the hole of the bracket in order to obtain the requisite tension of the spring.

Fig. 4 exhibits a vertical section of the brackets, the wedges, and the bands, while Fig. 5 is a side view of one of the brackets.

Heretofore in making the elastic shuttle-guide it has been either wholly or partially composed of vulcanized rubber, which, in time, is liable to deteriorate and lose its elasticity, and is injuriously affected by oil. It is also objectionable in other respects, but when composed of the helical spring and two inelastic round bands, as herein provided for, (usually of rawhide or leather,) the elastic guide is, I consider, more durable and better in many respects, and when held in the brackets by the wedges, as described, can easily be slackened or taken up, as may be desirable from time to time.

I claim as my invention or improvement in elastic shuttle-guides for looms—

1. A guide composed of a metallic helical spring, A, and two inelastic bands, B B, as described, extended from such spring in manner as set forth.

2. The arrangement and combination of the wedges *a a* with the brackets C C, and the elastic shuttle-guide composed of the metallic helical spring A and the two inelastic bands B B, all being as explained and represented.

JOSEPH B. BANCROFT.

Witnesses:

E. D. BANCROFT,
W. S. BANCROFT.