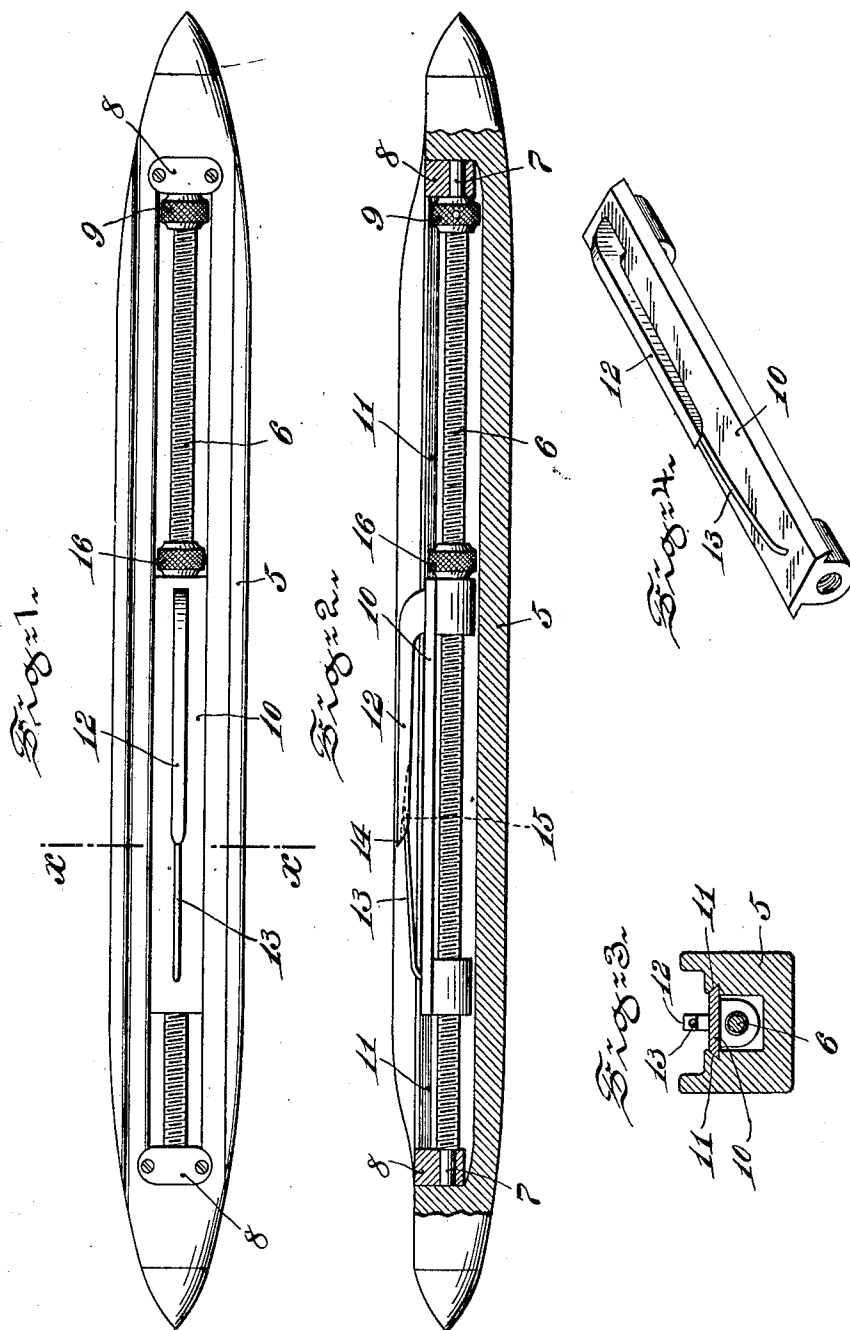


No. 857,107.

PATENTED JUNE 18, 1907.

J. L. POALK.  
LOOM SHUTTLE.  
APPLICATION FILED JULY 28, 1906.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## LOOM-SHUTTLE.

No. 857,107.

Specification of Letters Patent.

Patented June 18, 1907.

Application filed July 28, 1906. Serial No. 328,243.

*To all whom it may concern.*

Be it known that I, JAMES LANE POALK, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Loom-Shuttles, of which the following is a specification.

My invention has relation to a shuttle especially adapted for a loom of the type or class wherein a continuous weft thread from a reel or spool outside the loom is thrown into the sheds by the shuttle. In looms of this class the shuttle carries no hobbin but is provided with a finger or projection adapted to catch the weft and carry it doubled through the shed.

The nature and scope of my invention will be more fully understood from the following description taken in connection with the accompanying drawings forming part hereof, in which,—

Figure 1, is a top or plan view of a shuttle embodying main features of my invention. Fig. 2, is a side elevational view, partly sectioned, of the same, Fig. 3 is a cross sectional view on the line XX of Fig. 1; and— Fig. 4, is a perspective view of the plate and weft carrying members of the shuttle detached from the other parts of said shuttle.

Referring to the drawings 5 represents the body of the shuttle, the interior of which is hollowed out to receive the threaded rod 6 having trunnions 7 at either end in plates or supports 8 secured in the body of the shuttle. At one end of the rod 6 is secured a thumb nut or collar 9 which when turned serves to rotate the rod 6. On the rod 6 and in screw threaded engagement therewith is a plate 10, which plate 10, as the rod 6 is rotated in one direction or the other is adapted to travel on the rod toward or away from an end of the shuttle. The plate 10 is preferably dovetailed at its sides in grooves 11 extending in the interior of the body 5 of the shuttle, so that said plate 10 will slide parallel with the upper face of said shuttle body. The plate carries two weft receiving members 12 and 13 projecting in opposite directions in the plate and of which members one 13 is flexible relatively to the other 12 and extends with its free end 14 under the free end 15 of said member 13 to interlock therewith. A lock nut 16 on the threaded rod 6 serves to lock the plate 10 to said threaded rod 6

In the operation of the shuttle, when the same travels from right to left, the overlapping member 12 catches the thread, said thread slipping under the end 15, depressing the flexible member 13 and resting under the fixed end of member 12. On the return of the shuttle the weft thread remains within the members 12 13 and is caught at the fixed end of member 13 and drawn thereby through the shed. By advancing or retracting the plate 10 in the body of the shuttle by means of the threaded rod 6, the distance that the weft thread is to be drawn out of the shed at either end can be gaged or regulated to suit the requirements.

Having thus described the nature and object of my invention what I claim as new and desire to secure by Letters Patent, is:—

1. In a loom shuttle, two weft retaining members projecting in opposite directions and one of said members having a free end everlapping the free end of the other member.

2. In a loom shuttle, two weft retaining members projecting in opposite directions, one of said members being flexible and having its free end extending under the free end of the other member.

3. A loom shuttle having a hollowed body, a plate adapted to slide in the hollow body and two weft retaining members secured to said plate and projecting in opposite directions thereon, one of said members having its free end overlapping the free end of the other member.

4. In a loom shuttle, two weft retaining members projecting in opposite directions and one of said members having its free end overlapping the free end of the other member combined with means for moving said members with respect to the ends of the shuttle.

5. A loom shuttle having a hollowed body, a threaded rod turning loosely in said body, a plate in screw threaded engagement with said rod and arranged to travel thereon when said rod is rotated, and two weft retaining members carried by said plate and projecting in opposite directions with the free end of one member overlapping the free end of the other member.

JAMES LANE POALK.

Witnesses:

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