

D. Leavitt.

Shuttle.

N^o 2,755.

Patented Aug. 18, 1842.

Fig. 1.

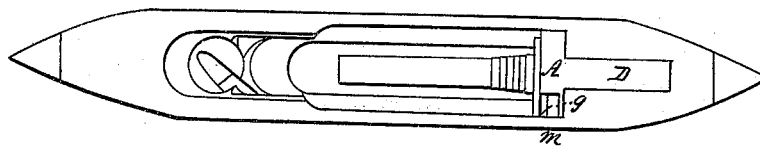


Fig. 2.

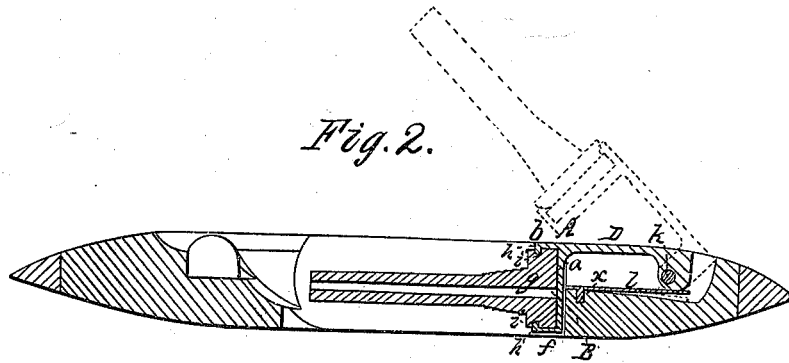


Fig. 3.

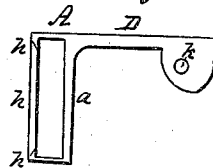


Fig. 4.

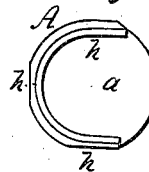


Fig. 6.

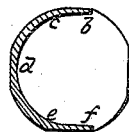
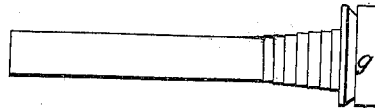


Fig. 5.



UNITED STATES PATENT OFFICE.

DANIEL LEAVITT, OF CABOTVILLE, MASSACHUSETTS.

MODE OF SECURING BOBBINS IN SHUTTLES FOR WEAVING.

Specification of Letters Patent No. 2,755, dated August 18, 1842.

To all whom it may concern:

Be it known that I, DANIEL LEAVITT, of Cabotville, in the county of Hampden, of the State of Massachusetts, have invented an improved Mode of Securing Bobbins in Shuttles, by which the said bobbin may be easily removed therefrom and another substituted whenever desirable, of which the following description, taken in connection with the accompanying drawings, hereinafter referred to, form a full and exact specification.

In the same I have set forth the principles of my improvement by which it may be distinguished from others of like character together with such parts or combinations thereof as I claim, and for which I solicit Letters Patent.

Of the drawings above mentioned, Figure 1, represents a top view of a shuttle containing my improvement. Fig. 2, is a vertical longitudinal and central section of the same. Fig. 3, is a side elevation of the movable box or socket and lever to which it is connected—as detached from the shuttle. Fig. 4, is a front view of said box or socket, and Fig. 5, is a side view of the bobbin. Fig. 6, is a vertical section of the socket taken in a plane parallel to its bottom.

The movable socket or box A, Figs. 1, 2, 3, 4, consists of a circular or other proper shaped metallic plate, *a*, placed at the rear end of the shuttle opening B—and having a ledge projecting from about two thirds of its periphery, as seen at *b f* Fig. 2, and at *b c d e f*, Fig. 6. That part of the ledge represented in Fig. 6, by the letters *c d e*, is semicircular corresponding to the circle of the periphery of the bobbin head *g*. The remaining parts *c b*, *e f* of the ledge, are parallel to each other. The socket being thus formed presents a lateral opening, *b f*, Fig. 6, in length equal to the diameter of the head of the bobbin; and through which the bobbin head may be introduced, so that its rear face or bottom may be placed against or upon the front face of the bottom plate *a*, as seen in Fig. 2, and its periphery may rest in contact with the inner face of the ledge.

In order to hold the bobbin in such position and prevent it from dropping out, the ledge has an angular or other proper shaped projection *h h*, Fig. 2, and *h h h* Figs. 3, 4, extending perpendicularly from its inner surface and entering into a corresponding groove *i i* formed in the circumference of the bobbin head. The box or socket A, thus constructed, is attached, as seen in the drawings, to a lever or arm D—extending in rear of the box A, and connected to the shuttle by a pin *k* which passes through the lever and shuttle and serves as a fulcrum for the lever or arm to turn upon. The rear end of the lever or arm is formed as seen in Figs. 2, 3, and has a spring *l* Fig. 2, arranged under it and secured to the shuttles by a screw *x* so as to act against said end and hold the socket in place when elevated into the position as denoted by the dotted lines in Fig. 2, or depressed into the shuttle. When the lever or arm D and socket A are raised out of the shuttle opening, or into the position denoted by the dotted lines in Fig. 2, the head of a bobbin may be inserted in the socket through the lateral opening *h f*; and when said lever and arm are depressed into the opening of the shuttle the side *m* thereof, prevents any displacement of the bobbin as will be understood by reference to Fig. 1.

Having thus explained my improvement I shall claim—

The movable box or socket, (which receives the head of the bobbin), constructed as described, the same being arranged upon the spring lever and operating substantially in the manner and for the purpose as herein before set forth.

In testimony that the foregoing is a true description of my said invention and improvement I have hereto set my signature this seventh day of June in the year eighteen hundred and forty-two.

DANIEL LEAVITT.

Witnesses:

WILLIAM BRIGGS,
ANTHONY RAINEY.