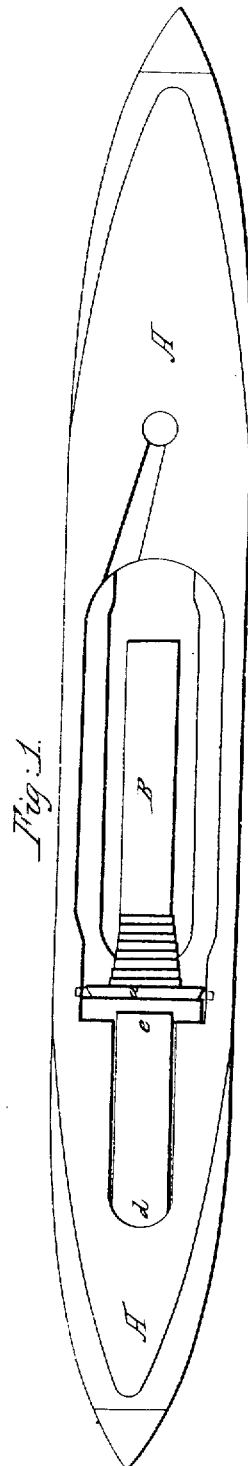
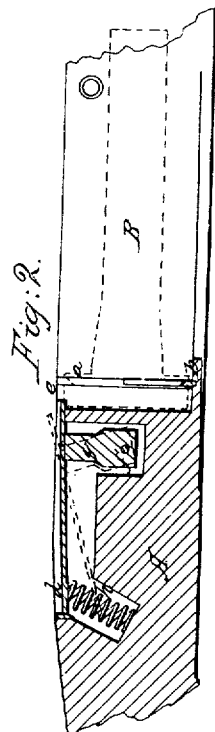
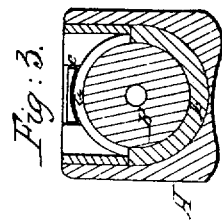


J. H. Coburn.
Loom Shuttle.

N: 2,489.

Patented Mar 12, 1842.



UNITED STATES PATENT OFFICE.

JOHN H. COBURN, OF LOWELL, MASSACHUSETTS, ASSIGNOR TO ROSWELL DOUGLASS,
OF LOWELL, MASSACHUSETTS.

WEAVER'S SHUTTLE.

Specification of Letters Patent No. 2,489, dated March 12, 1842.

To all whom it may concern:

Be it known that I, JOHN H. COBURN, of Lowell, in the county of Middlesex, in the State of Massachusetts, have invented
5 a new and useful Improvement in Weavers' Shuttles, of which the following description, taken in connection with the accompanying drawings, forms a full and exact specification.

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

Of the drawings above mentioned, Figure 1 represents a top view of a shuttle constructed with my improvement applied to it. Fig. 2, is a central vertical and longitudinal section. Fig. 3, is a transverse vertical
20 section taken through the bobbin head.

My improvement consists in the method of securing or confining the bobbin in the shuttles from which it can easily be removed
25 at any time whenever requisite.

In Figs. 1 and 2 A represents the shuttle and B is the bobbin. In Fig. 2, the position of the latter is exhibited by dotted lines. The bobbin has an angular or other proper
30 shaped groove *a* Figs. 1, 2, formed in its head which, when it is in place, rests and is received upon an angular and semicircular piece of metal *b* Figs. 2, 3, inserted and properly confined in the rear of the interior
35 of the shuttle in the position seen in the drawings. The space or opening of the shuttle above the piece *b*, is cut out large enough to admit the head of the bobbin to

be inserted into or removed from the shuttle. The bobbin head is pressed down upon
40 the angular piece of metal *b* by a lever *d e*, turning on a fulcrum or pin *f* passing through the shuttle, and the lower end of a piece of metal *g* secured to and projecting from the lower side of the lever *d e* in
45 proximity to its end *e*, as seen in the drawings. A helical or other suitable spring *h* Fig. 2, forces up the end *d*, and consequently depresses the end *e* of the lever upon the
50 bobbin head and thus in connection with the piece of metal *h* confines the bobbin in place. Therefore in order to remove the bobbin, it only becomes necessary to press the thumb upon the end *d* of the lever *d e*
55 so as to bring said lever into the position denoted by the dotted lines. The end of the lever is thus retracted from the bobbin head—and the bobbin may be lifted from its place.

Having thus described my invention I
60 shall claim—

Securing the bobbin in the shuttle, by means of the spring lever *d e* combined with the semicircular angular piece *b*, the whole being arranged and operating substantially as described.
65

In testimony that the foregoing is a true description of my said invention and improvements I have hereto set my signature
70 this twenty ninth day of January in the year eighteen hundred and forty two.

JOHN H. COBURN.

Witnesses:

J. A. KNOWLES,
JOSIAH CHANDLER.