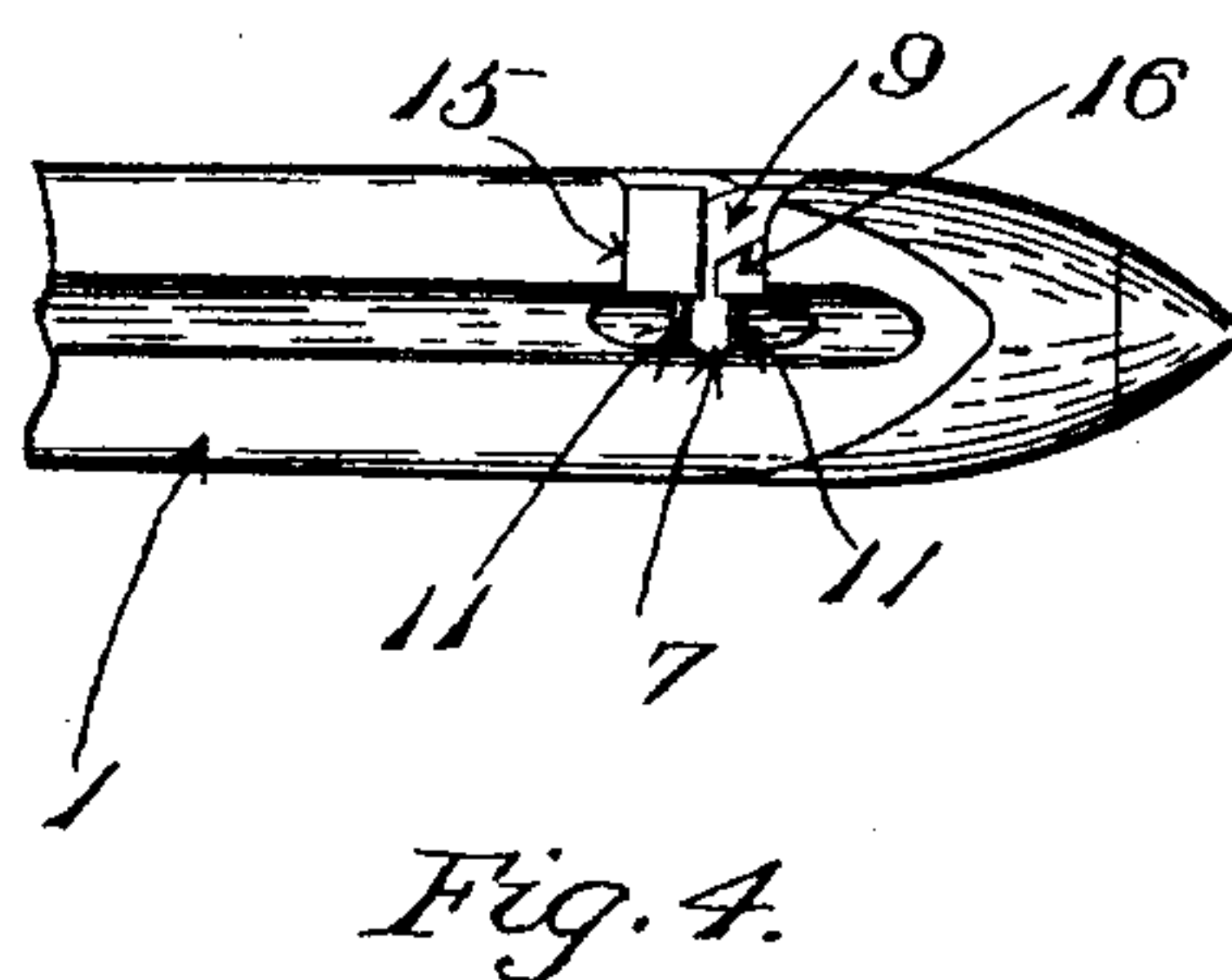
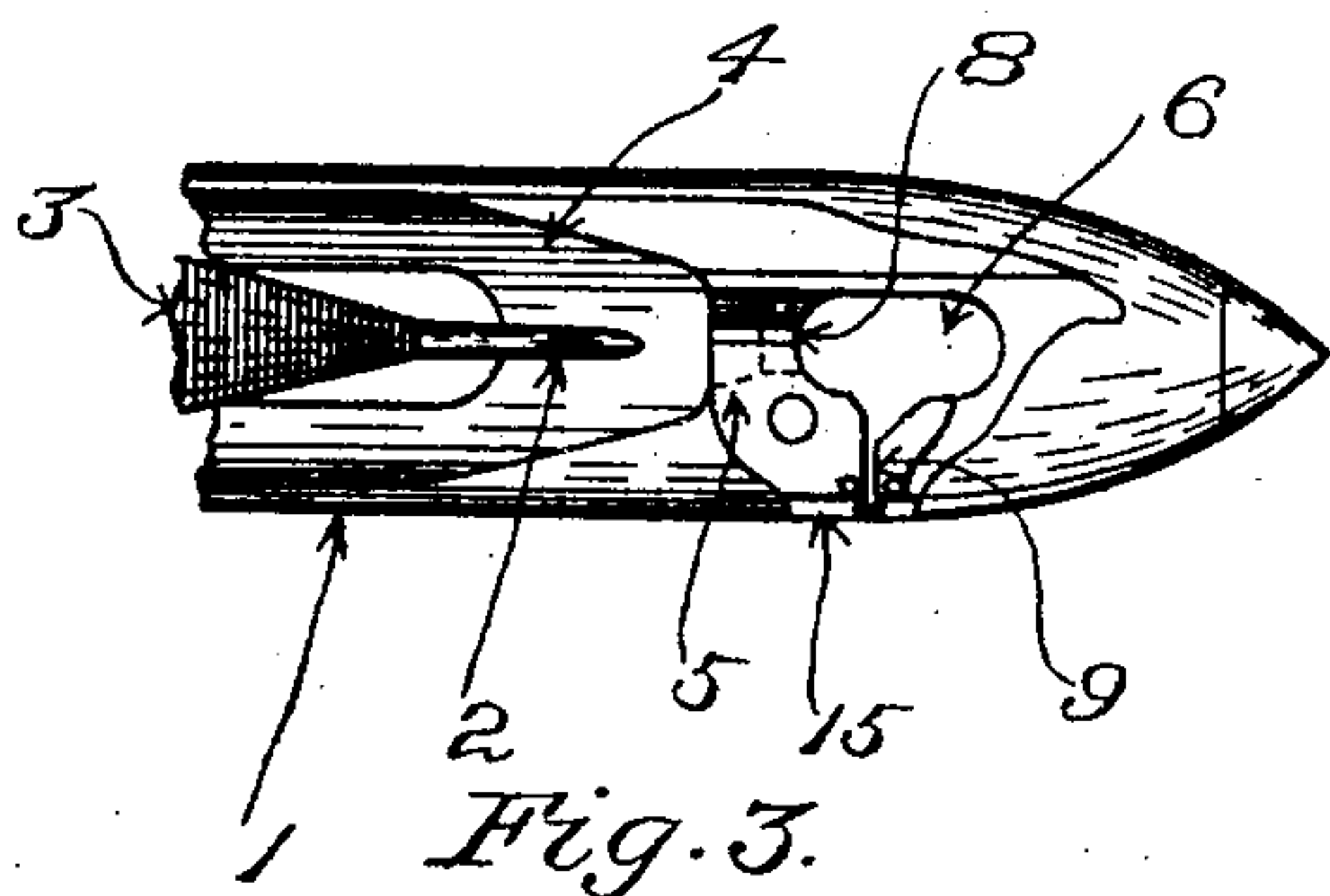
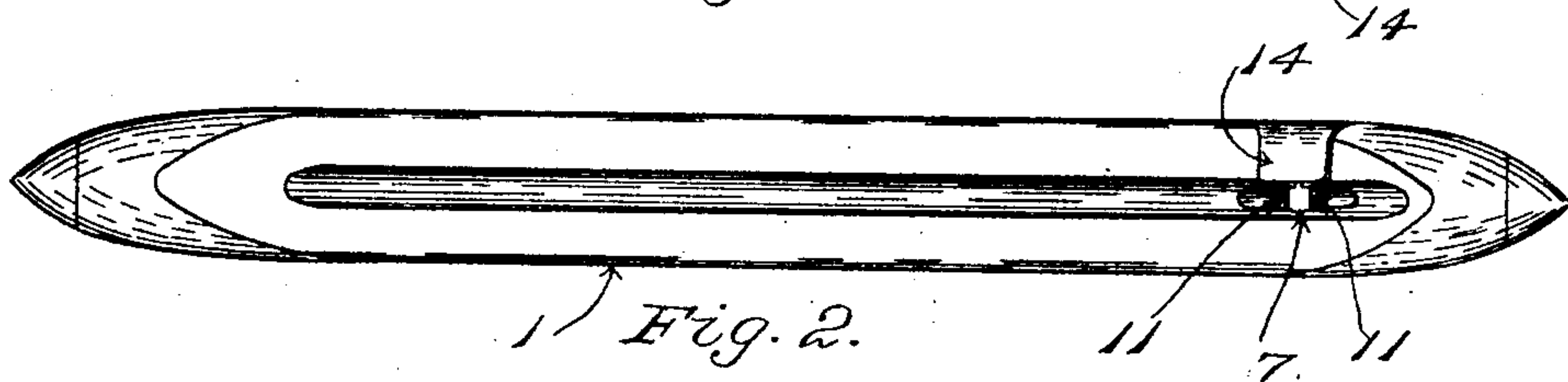
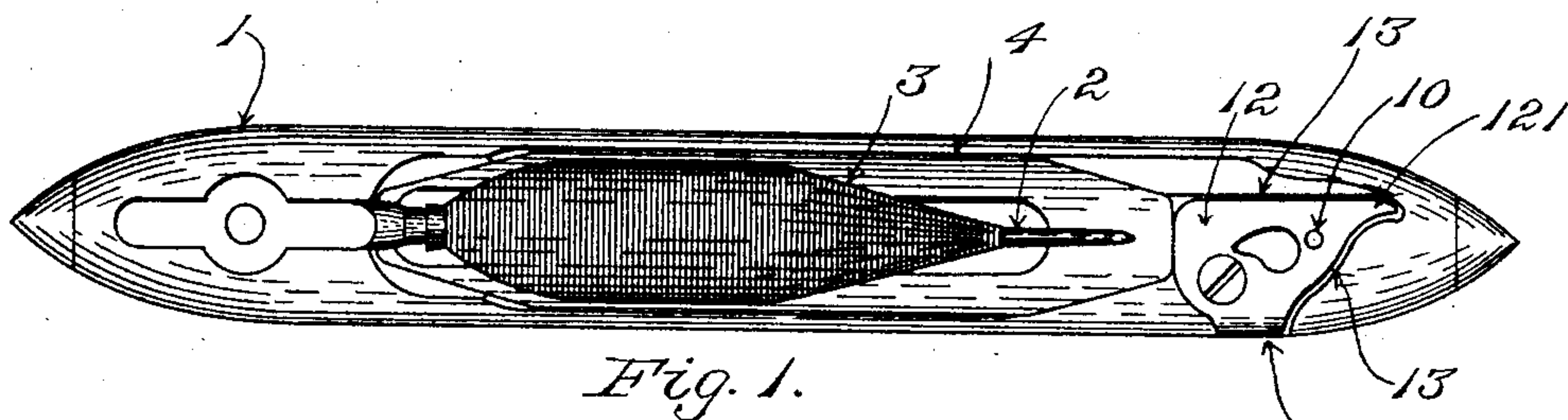


No. 803,350.

PATENTED OCT. 31, 1905.

E. M. MAIN.  
LOOM SHUTTLE.  
APPLICATION FILED MAR. 6, 1905.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

ELVIN M. MAIN, OF BRUNSWICK, MAINE, ASSIGNOR TO THE GEO. W. STAFFORD COMPANY, OF READVILLE, MASSACHUSETTS, A CORPORATION OF NEW YORK.

## LOOM-SHUTTLE.

No. 803,350.

Specification of Letters Patent.

Patented Oct. 31, 1905.

Application filed March 6, 1905. Serial No. 248,701.

*To all whom it may concern:*

Be it known that I, ELVIN M. MAIN, a citizen of the United States, residing at Brunswick, in the county of Cumberland, State of Maine, have invented a certain new and useful Improvement in Loom-Shuttles, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention consists in a self-threading loom-shuttle constructed as hereinafter described to prevent the weft thread or filling during the use of the shuttle in a loom from rising out of the yarn-delivery eye or educt into the slit through which the weft thread or filling is passed into the said eye or educt in threading the shuttle.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 shows in plan a shuttle having the invention applied thereto. Fig. 2 shows the same in front elevation. Fig. 3 shows the threading end of the shuttle in plan with the horn or cover-plate removed. Fig. 4 shows in front elevation the same portion of the shuttle with the horn or cover-plate removed.

Having reference to the drawings, the body of the shuttle which is shown therein is designated 1, the spindle being designated 2, and a cop of weft thread or filling supported by the said spindle being designated 3. The usual yarn-containing space or cavity within the shuttle-body is designated 4. The threading arrangements which are shown are in the main of a well-known character. Thus at the forward end of the yarn-cavity 4 the shuttle-body is formed with the passage-way 5, Fig. 3, leading from the yarn-cavity to the threading-chamber 6, from which last the yarn-delivery eye or educt 7 extends to the front side of the shuttle. For the admission of the weft-yarn into the passage-way 5 by a vertical movement from above a slit 8 is made down through the bridge intervening between the yarn-cavity 4 and the threading-chamber 6, the said slit 8 intersecting the said passage-way, and a similar slit 9, made vertically through the material of the shuttle-body above the delivery eye or educt 7, intersects the latter. Within the threading-chamber 6 is located the usual post 10, of which only the upper end is shown, (see Fig. 1,) the said post

serving as a fixed guide for the weft yarn or filling, around which the latter changes its direction in proceeding to the delivery eye or educt. Pins to take the wear that is occasioned by the contact of the weft-thread or filling with the sides of the delivery eye or educt as the weft thread or filling runs out through the said delivery eye or educt are shown at 11 11 at the opposite sides of the delivery eye or educt.

A cover-plate is shown at 12, it having its forward end extended into a point 121 to serve as a horn in threading the shuttle, and a slit or passage-way being shown at 13 between two side edges of the said cover-plate and horn and the walls of the recess within which the cover-plate is seated.

As thus far referred to the features are old and well known. The precise construction and arrangement thereof are not of the gist of the invention, and variations may be made therein as desired without involving any departure from the spirit of the invention.

In conformity with the invention the cover-plate 12 is provided or furnished with a guard lip or flange 14. (Shown best in Fig. 2.) The said guard lip or flange extends down at the front side of the shuttle-body, it being sunk within a depression at 15, Figs. 3 and 4, which is formed in the material of the shuttle-body for the purpose of receiving the same. The guard lip or flange crosses or bridges the outer threading-slit 9, as indicated clearly in Fig. 2, and its lower edge or end is located at or in close proximity to the top of the yarn-delivery eye or educt 7. The slit or passage-way 13 is continued down alongside the vertical edge of the said guard lip or flange, and a sufficient space exists between the inner surface of the guard lip or flange and the outer surface of the portion 16, Fig. 4, of the material of the shuttle-body to permit the weft thread or filling to be drawn through between the said surfaces from the slit or passage-way 13 into the slit 9 and yarn-delivery eye or educt 7.

The guard lip or flange 14 prevents the weft thread or filling from being jerked or drawn at the front surface of the shuttle to the upper end of slit 9 or into the threading passage-way 13.

What is claimed as the invention is—



A loom-shuttle having a threading-slit leading downward into the yarn-delivery eye or educt, and a cover-plate, with a threading passage-way extending along the edge of said  
5 cover-plate and communicating with the said threading-slit, the cover-plate having at the front of the shuttle-body a depending lip or flange bridging the outer end of the threading-

slit and serving to prevent the weft thread or filling from rising within such end. 10

In testimony whereof I affix my signature in presence of two witnesses.

ELVIN M. MAIN.

Witnesses:

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EUGENE THOMAS.