

P. A. LAMBERT.

Loom-Shuttle.

No. 134,075.

Patented Dec. 17, 1872.

fig. 1.

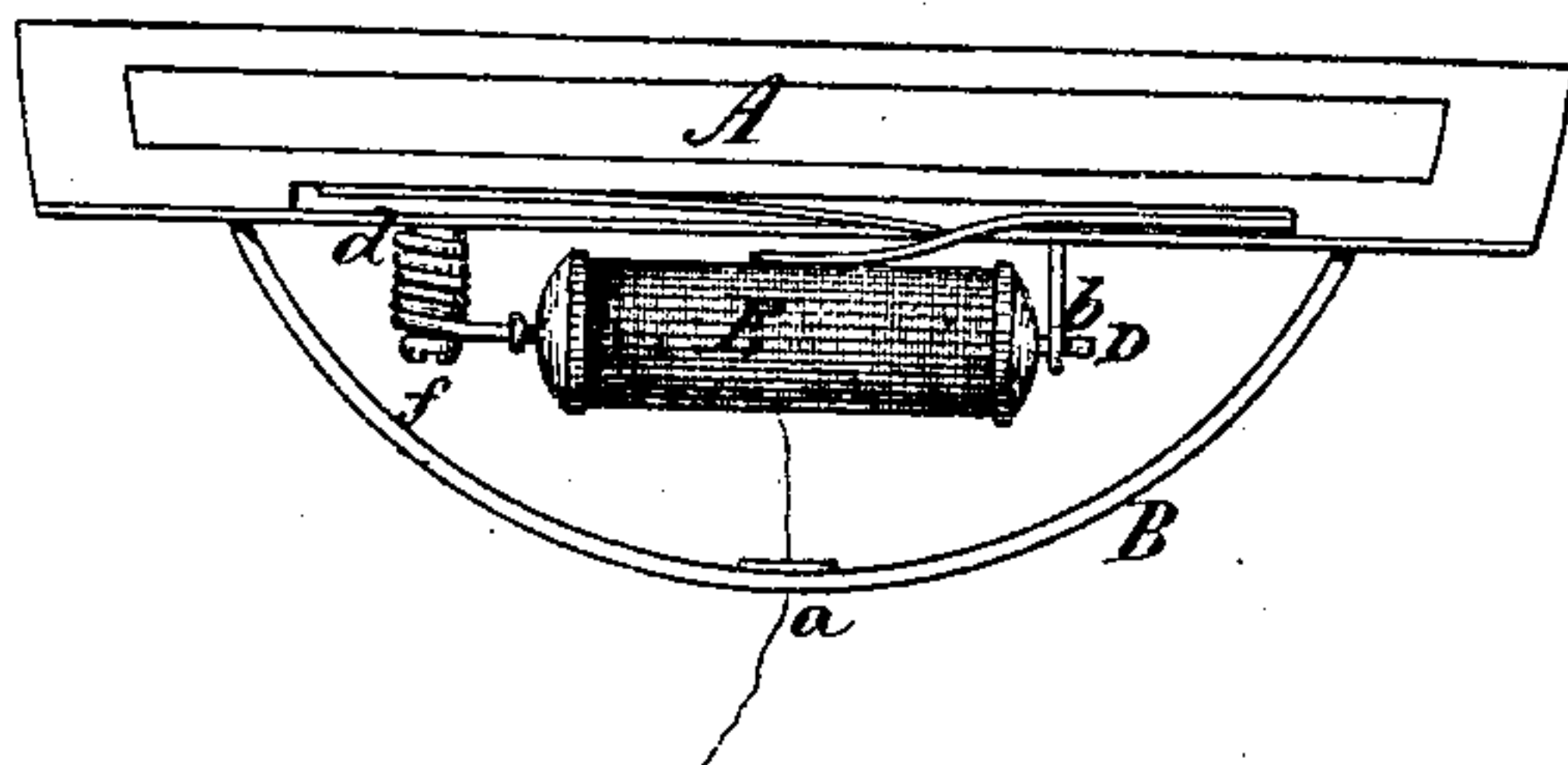


fig. 2.

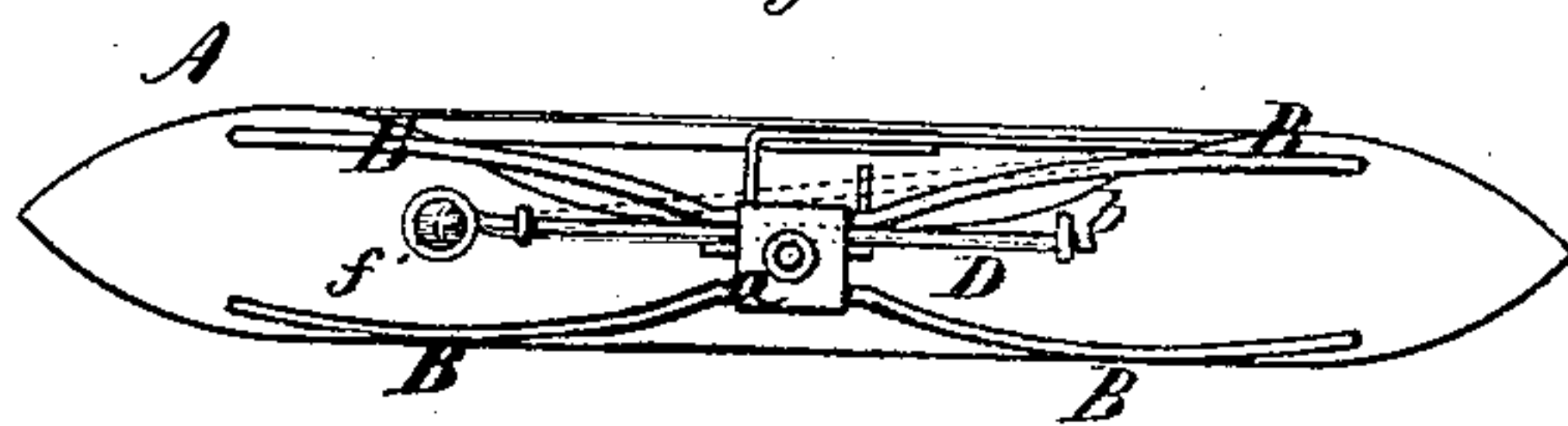
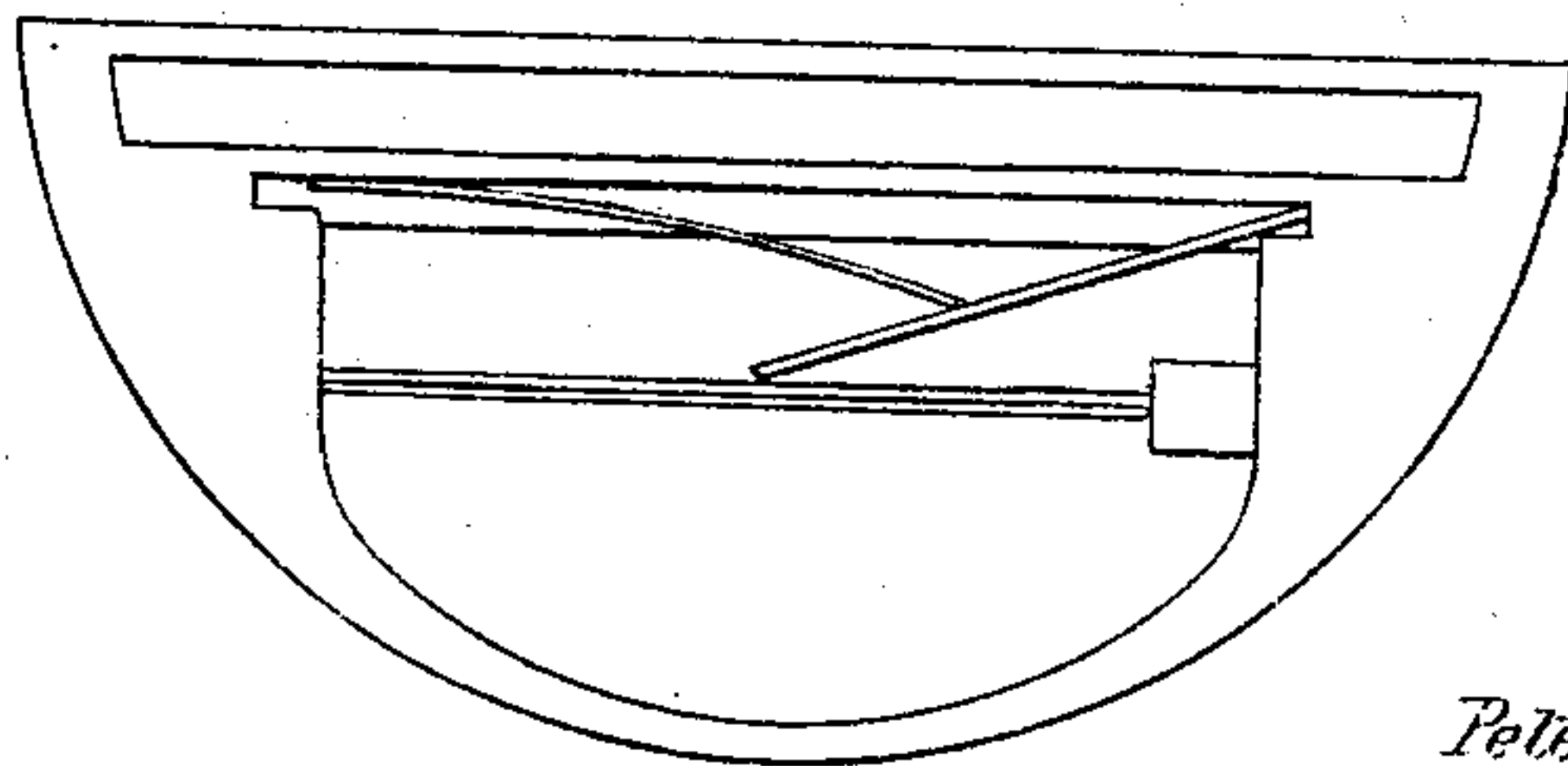


fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

PETER A. LAMBERT, OF ANSONIA, CONNECTICUT.

IMPROVEMENT IN LOOM-SHUTTLES.

Specification forming part of Letters Patent No. 134,075, dated December 17, 1872.

To all whom it may concern:

Be it known that I, PETER A. LAMBERT, of Ansonia, in the county of New Haven and State of Connecticut, have invented a new Improvement in Shuttle for Tape-Looms; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents, in—

Figure 1, a top view; in Fig. 2, a front view; and in Fig. 3, a top view, of the common construction.

This invention relates to an improvement in shuttles for looms which are designed to weave narrow fabrics, and commonly known as tape-loom. These have usually been made as seen in Fig. 3, the frame entirely of wood; and the front part of the frame, within which is the bobbin, is necessarily so heavy that it causes the shuttle to tip forward and drag, and the manner of inserting the bobbin is inconvenient and the construction expensive, all of which this invention is designed to overcome. This invention consists in forming the front or frame of the shuttle in skeleton from wire or similar material, and also in constructing the spindle in form of a helical spring at one end, by the elasticity of which the spindle is held in position, but allows the raising of the spindle for the introduction of the bobbin and without the removal of the spindle from the shuttle.

A is the body of the shuttle, of the usual construction, and provided with the usual means for driving the shuttle. From the body

A, and near each end, a frame-work, B, of wire or other suitable metal, projects, running from near one end in circular form to near the other end, as seen in Fig. 1. At the center of this frame-work an eye, *a*, is formed, through which the thread is to pass. D is the spindle, which is formed from wire and attached to the body at *d*, where it is wound spirally around a stud, *f*, as seen in Fig. 1, thence running toward the other end to form the spindle. This spiral winding makes a spring the tendency of which is to hold the spindle down into its seat *b*, but which allows the spindle to be raised, as denoted in broken lines, Fig. 2, for the placing of the bobbin E thereon, as seen in Fig. 1, the spring causing the spindle to return with the bobbin to its place.

The usual tension device is attached to the frame, the bobbin introduced, the thread passed through the eye *a*, and the shuttle adjusted and used in the usual manner.

By this construction I am enabled to make the shuttle much narrower proportionately, as seen in Figs. 1 and 2, and the frame of the shuttle is so light that the body of the shuttle may be supported and prevent its dragging.

I claim as my invention—

The combination of the base A, skeleton frame B, eye *a*, and spindle D, attached to the base by the spring *d*, and the seat *b* for the said spindle, all constructed as herein set forth.

PETER A. LAMBERT.

Witnesses:

A. B. CLEMONS,
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