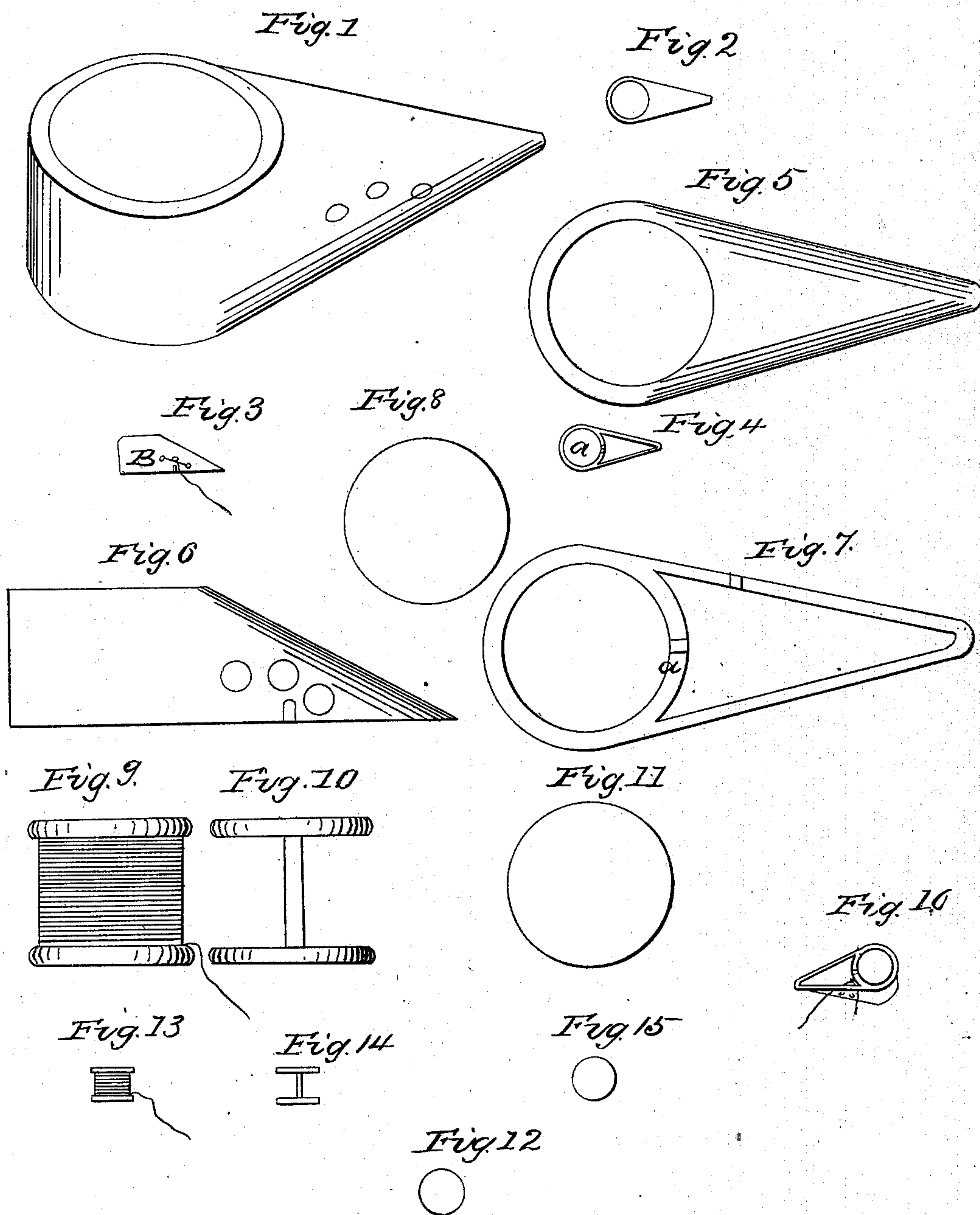


G. W. MITCHELL.
Sewing Machine Shuttle.

No. 26,511.

Patented Dec. 20, 1859.



Witnesses
John H. Kingshead
John H. Mallin

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UNITED STATES PATENT OFFICE.

G. W. MITCHELL, OF JACKSON, TENNESSEE.

IMPROVEMENT IN SHUTTLES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 26,511, dated December 20, 1859.

To all whom it may concern:

Be it known that I, G. W. MITCHELL, of Jackson, in the county of Madison and State of Tennessee, have invented a new and useful Sewing-Machine Shuttle; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the construction of the shuttle of a sewing-machine and the position of its bobbin.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The shuttle can be made of any desired form or size without changing the principle. The shuttle that I have made to illustrate the principle of my invention resembles a shoe, as shown in Figure 6, enlarged side view. This shuttle is constructed by first forming a thin thimble of any suitable material, then attaching a curved point, as shown in Figs. 4 and 7, on the side of the cavity at *a*, Figs. 4 and 7; and connecting with the curve or hollow in the point of the shuttle is a slot, *a*, which allows

the thread to pass from the bobbin, without any break or angle, through the hole nearest the point of the shuttle; then passing through other holes to give proper tension, as shown at *b* in Fig. 3, and thereby avoiding the evil attending the operation of other shuttles, which have a lateral drag on the bobbin when the thread is paying off at the end of the bobbin which causes uneven tension. The bobbin is formed with heads to fit the cavity of the shuttle, the heads forming part of the sides of the shuttle, and is kept in position by the sides of the shuttle race or carrier.

What I claim as my invention, and desire to secure by Letters Patent, is—

The shuttle formed with an open cavity through it in a transverse direction to its movement, with a bobbin to fit the cavity, the heads of the bobbin forming a part of the sides of the shuttle, and being kept in position by the sides of the shuttle race or carrier, substantially as described and set forth.

G. W. MITCHELL.

Attest:

JOHN S. HOLLINGSHEAD,
JOHN W. MANKIN.