No. 680,019. Patented Aug. 6, 1901.

J. BROWN.

HOLDING SOCKET FOR BOBBINS.

(Application filed June 5, 1901.)

(No Model.)

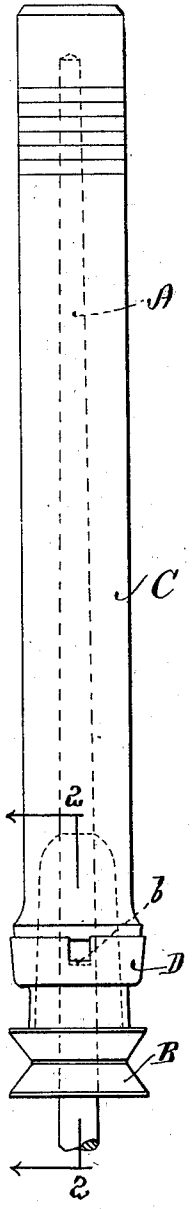


FIG. 1.

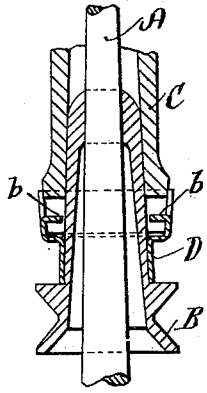


FIG. 2.

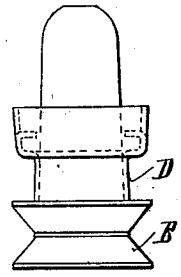


FIG. 3.

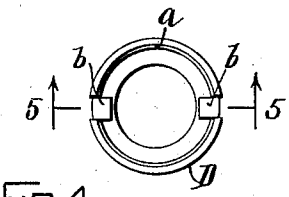


FIG. 4.

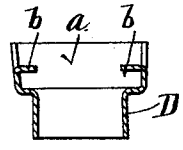


FIG. 5.

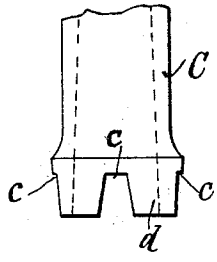


FIG. 6.

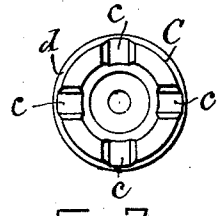


FIG. 7.

WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES BROWN, OF PAWTUCKET, RHODE ISLAND.

HOLDING-SOCKET FOR BOBBINS.

SPECIFICATION forming part of Letters Patent No. 680,019, dated August 6, 1901.

Application filed June 5, 1901. Serial No. 63,321. (No model.)

To all whom it may concern:

Be it known that I, JAMES BROWN, a citizen of the United States, residing at Pawtucket, in the State of Rhode Island, have invented a new and useful Improvement in Holding-Sockets for Bobbins, of which the following is a specification.

This nature of my invention consists in the combination of a tapering socket with clutch projections adapted for engagement with the notched end of a bobbin, as hereinafter set forth.

In the accompanying drawings, Figure 1 represents the side view of my improved bobbin-holding socket and the contained bobbin. Fig. 2 represents a partial section of the same, taken in the line 2 2 of Fig. 1. Fig. 3 represents a side view of the whirl and bobbin-holding socket without the bobbin. Fig. 4 represents a top view of the holding-socket separate from the whirl. Fig. 5 represents a section taken in the line 5 5 of Fig. 4. Fig. 6 represents a side view of the notched end of the bobbin. Fig. 7 represents an end view of the same.

In the drawings, A represents the spindle; B, the whirl; C, the bobbin, and D the bobbin-holding socket secured to the whirl, the said socket being preferably formed of sheet metal and having the inwardly-tapered socket-chamber *a* and the inwardly-turned lips or clutch projections *b b*, adapted for engagement with the notches *c c* at the lower end of the bobbin C, the said bobbin being provided with the outwardly-tapered surface *d*, which fits the inwardly-tapered surface *e* of the socket D. The bobbin C will therefore be held for rotation with the whirl by the engagement of the clutch projections *b b* with the notches *c c* of the bobbin in connection with the engagement of the tapered surfaces *d* and *e*, which serve to hold the bobbin in proper position.

I claim as my invention—

1. The bobbin-holding socket, having the inwardly-turned lips or clutch projections adapted for engagement with the notches of a bobbin.

2. A bobbin-holding socket, provided with an inwardly-tapered chamber adapted to fit the outwardly-tapered end of a bobbin, and with clutch projections, adapted for engagement with notches at the end of the bobbin.

JAMES BROWN.

Witnesses:
SOCRATES SCHOLFIELD,
S. FRED CARPENTER.