

(No Model.)

J. PAPPA.

ATTACHMENT FOR WINDING BOBBINS.

No. 359,277.

Patented Mar. 15, 1887.

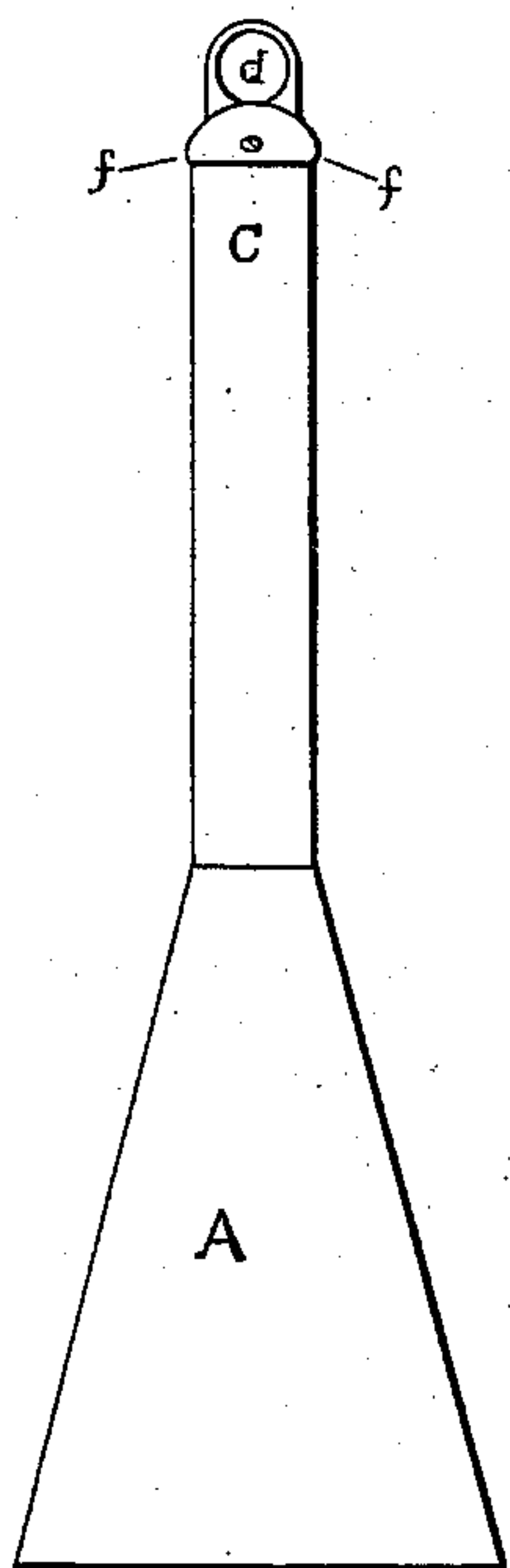


Fig. 1.

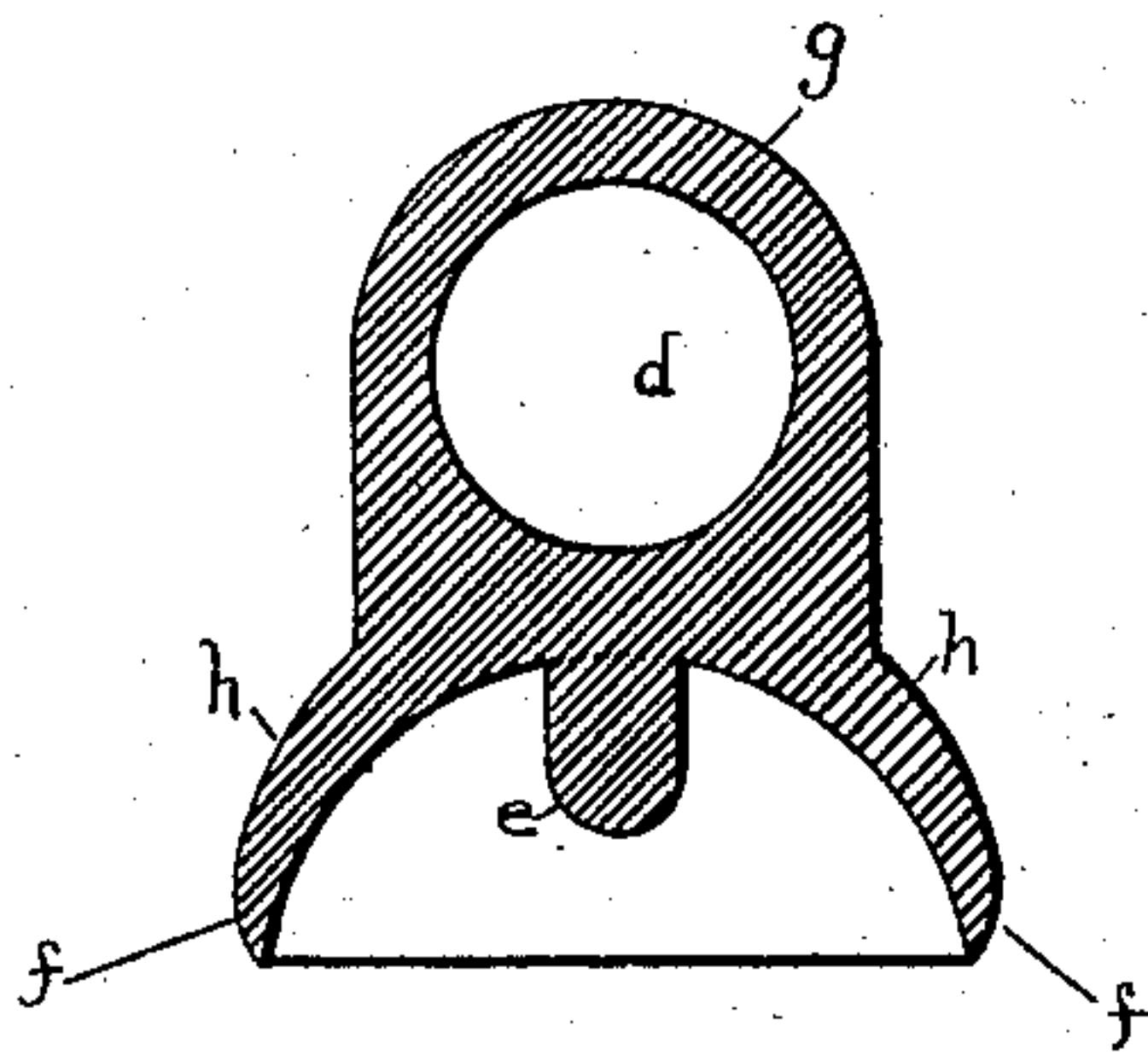


Fig. 2.

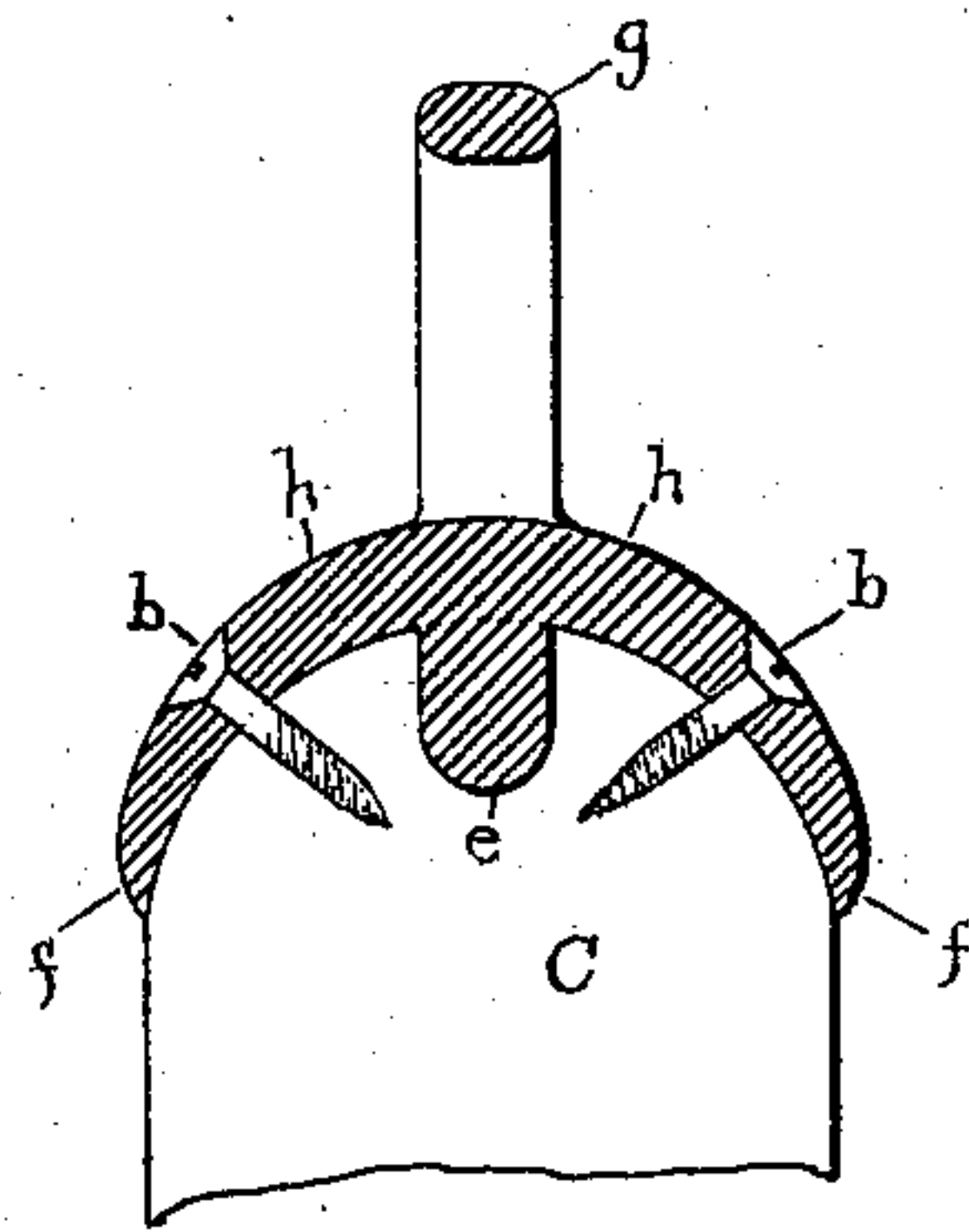


Fig. 3.

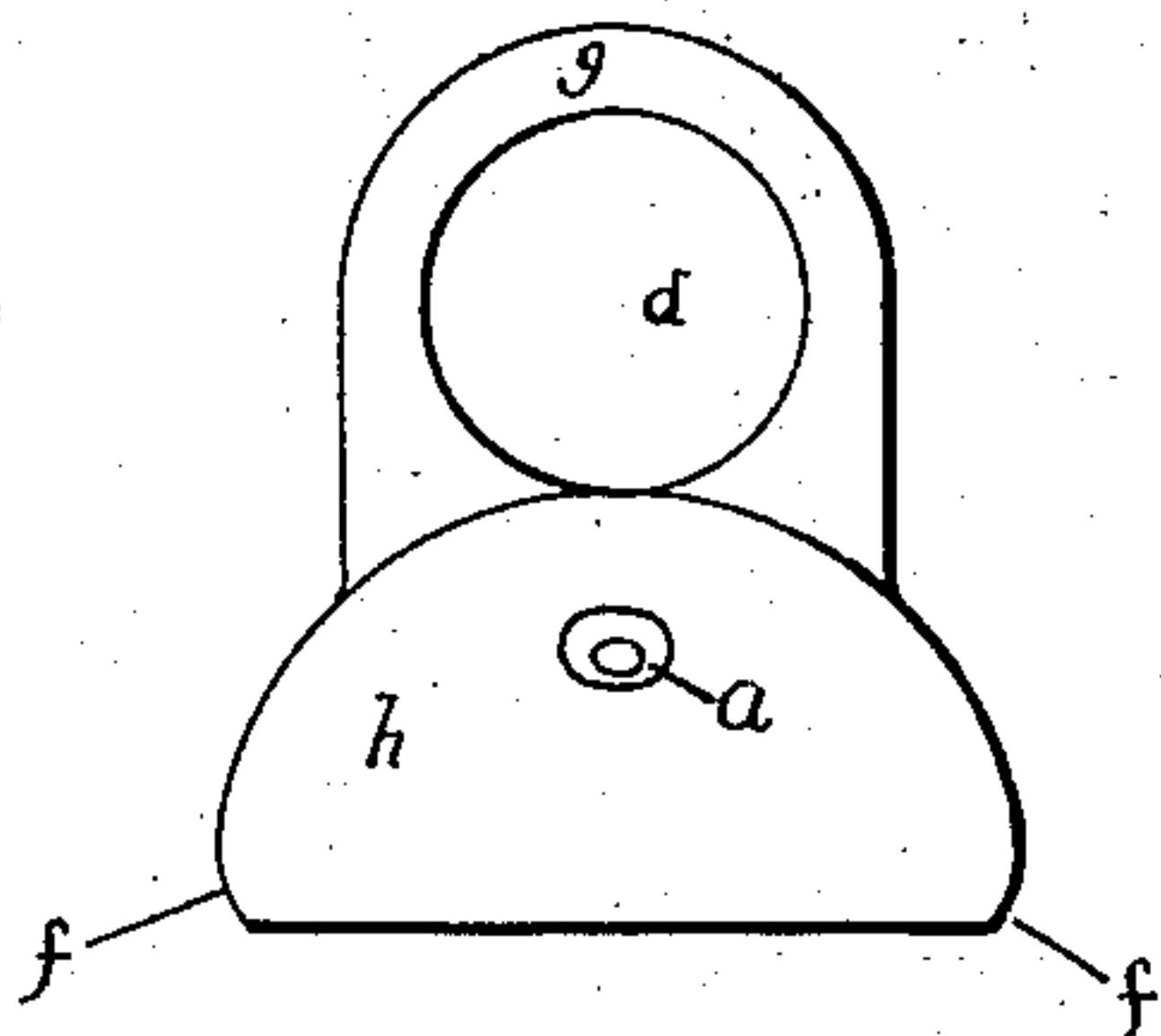


Fig. 4.

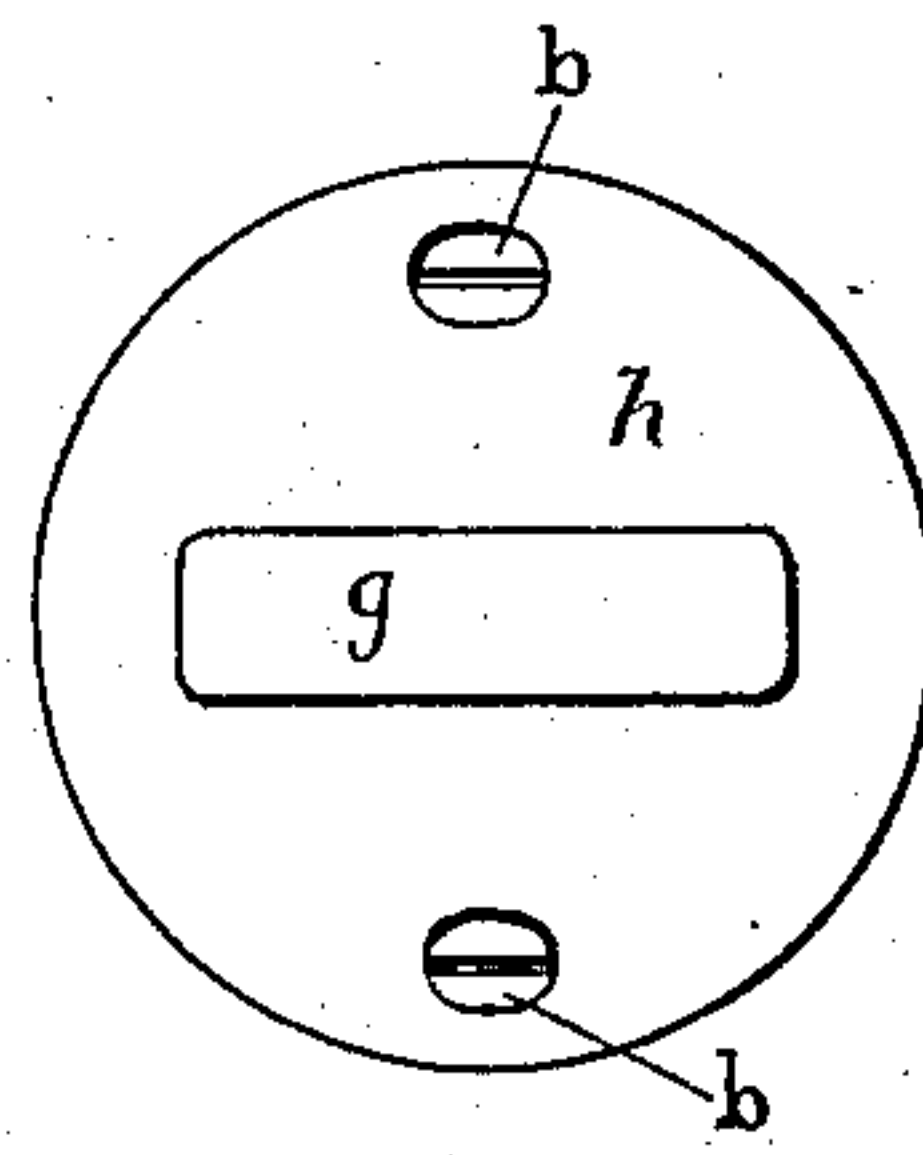


Fig. 5.

Witnesses:  
Chas F Whitney  
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# UNITED STATES PATENT OFFICE.

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## ATTACHMENT FOR WINDING-BOBBINS.

SPECIFICATION forming part of Letters Patent No. 359,277, dated March 15, 1887.

Application filed November 1, 1886. Serial No. 217,691. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES PAPPA, a citizen of the United States, residing at Oswego, in the county of Oswego and State of New York, have invented a new and useful Attachment for Winding-Bobbins, of which the following is a specification.

The object of my invention is to facilitate the carrying of winding-bobbins and also to keep the yarn from slipping off the top end of the winding-bobbin. This I accomplish by the attachment of which the following is a specification.

Figure 1 represents an elevation of a winding-bobbin with the attachment in place. A is the lower part, and C the top end of the winding-bobbin. Fig. 2 represents a longitudinal section of the attachment. Fig. 3 represents a central vertical section of the attachment in a plane at right angles to that of Fig. 1, showing a portion of the bobbin in outline. Fig. 4 represents an elevation of the attachment. Fig. 5 represents a top view with screws *b* in holes *a*.

Similar letters of reference represent similar parts.

My invention consists of the round cap *h*, with the projecting swell *f*, the loop *g*, which forms the finger-hole *d*, and the pin *e*, all of which is fastened to the top end, *c*, of winding-bobbin by the pin *e* entering the spindle-hole in the top of the winding-bobbin, and the screws *b* put through holes *a*.

The swell *f* keeps the yarn from slipping off the top end of the bobbin. The bobbin is easily carried by placing a finger in the finger-hole *d*.

I claim—

The attachment for winding-bobbins, consisting of the cap *h*, having the projecting swell *f*, the loop *g*, which forms the finger-hole *d*, and the pin *e*, substantially as and for the purpose set forth.

JAMES PAPPA.

Witnesses:

CHAS. F. WHITNEY,  
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