L. F. WARD.

Spool-Stands and Thread-Cutters.

No. 135,609. Patented Feb. 4, 1873.

Fig. 1.

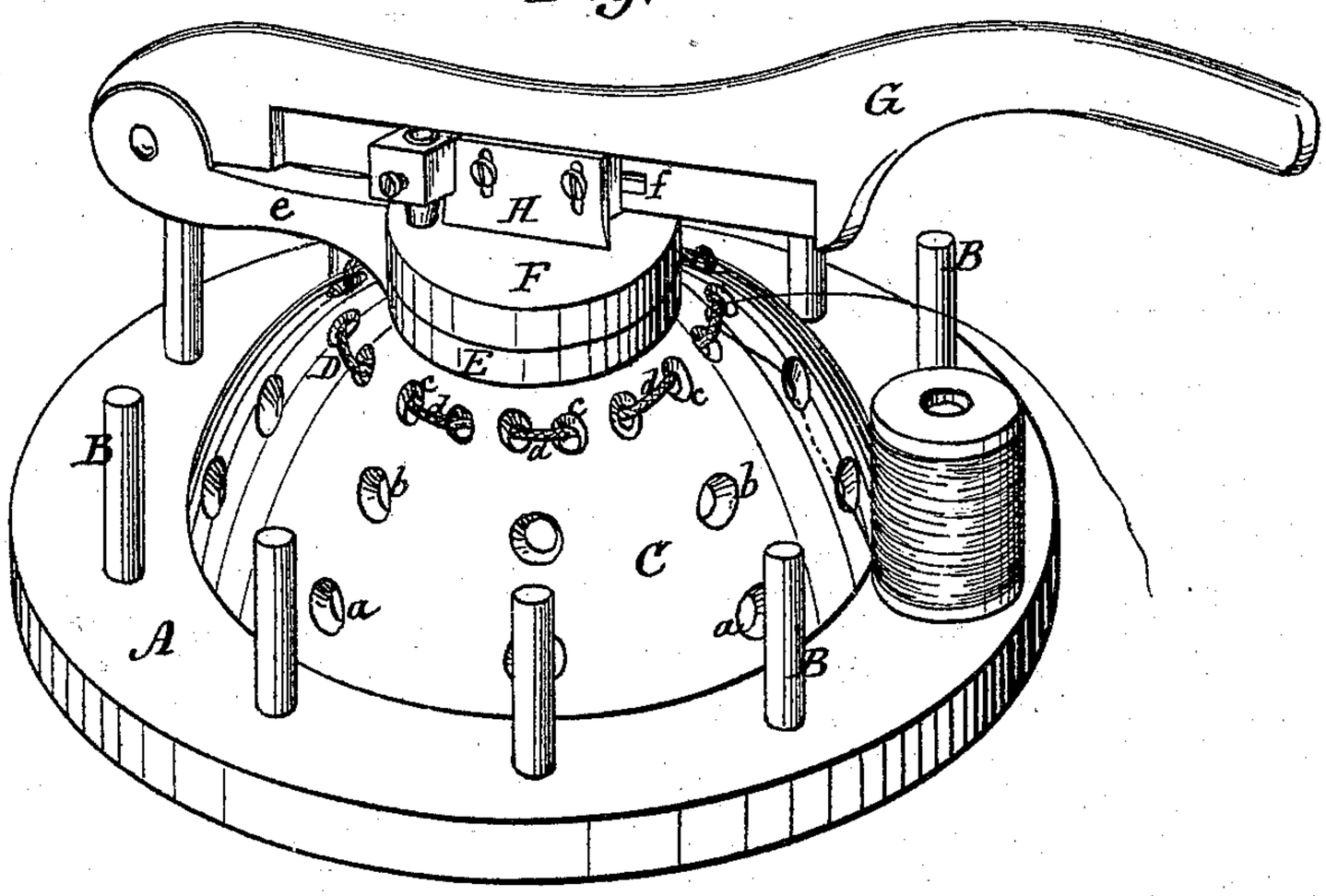
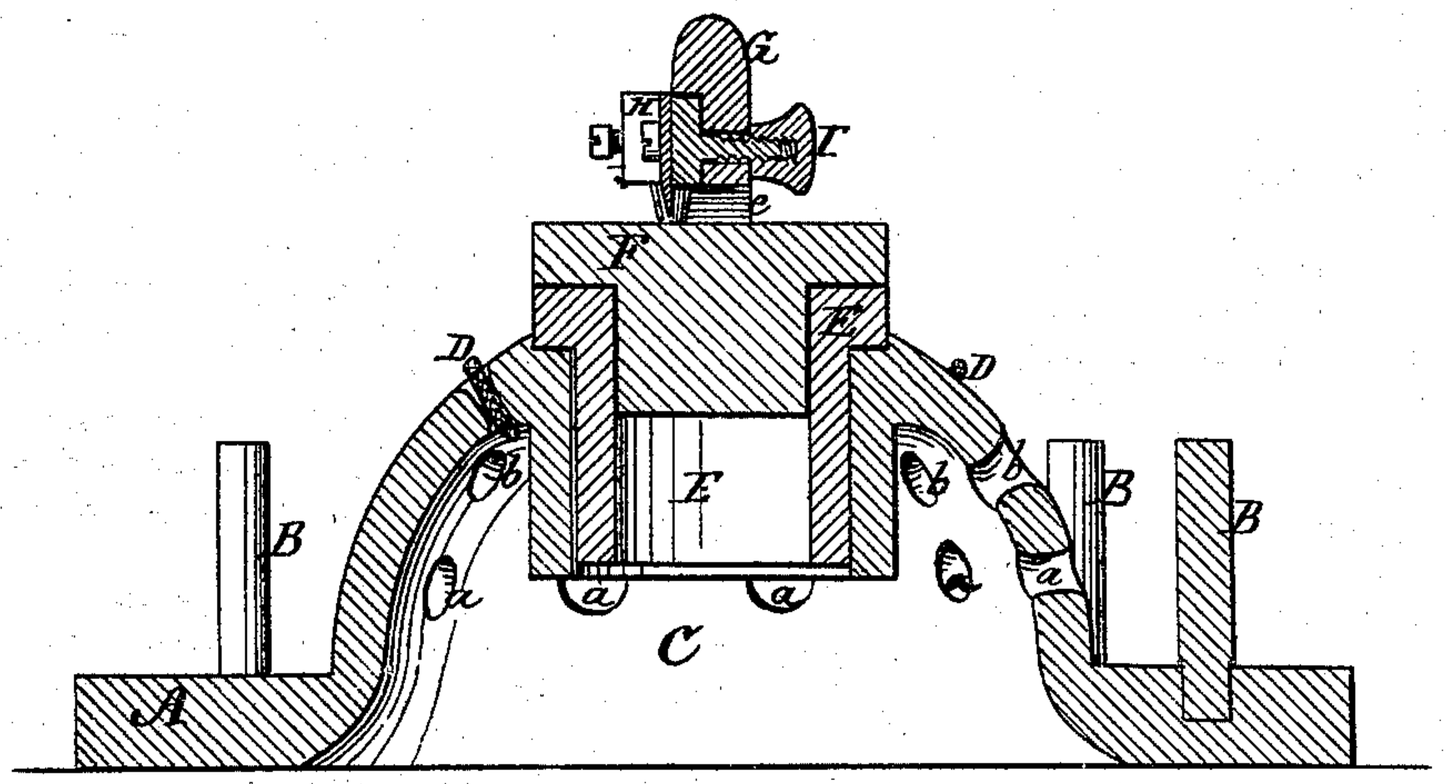


Fig. 2.



Witnesses.
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AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

LEWIS F. WARD, OF MARATHON, NEW YORK.

IMPROVEMENT IN SPOOL-STANDS AND THREAD-CUTTERS.

Specification forming part of Letters Patent No. **135,609**, dated February 4, 1873.

To all whom it may concern:

Be it known that I, LEWIS F. WARD, of Marathon, in the county of Cortland and State of New York, have invented a certain new and useful Combined Spool-Stand and Thread-Cutter.

My invention consists in the combination, with a series of spool-holders, of a thread-guide of peculiar construction, and a device for cutting thread, &c.; and I do hereby declare that the following specification, taken in connection with the drawing furnished and forming a part of the same, is a full, clear, and exact description of my invention.

In the drawing, Figure 1 represents a view, in perspective, of one of my combined spool-stands and thread-cutters; and Fig. 2 represents a central vertical section of the same.

A denotes the base-plate. B, in each instance, represents a vertical spool-spindle. Several spindles are shown placed at suitable distances apart upon the base-plate. C denotes the thread-guide. It is represented as having a semi-spherical form and mounted upon the base-plate A at the center. Several series of slots or perforations *a b c* are made in the guide extending around the same. D denotes a strip or band of elastic material, which is passed through the perforations *c* of the thread-guide in such a manner as to form the loops *d*. The spools are placed upon the spindles B, and the thread being led through the perforations *a b* in the thread-guide C, is passed through the loops *d*. When the thread is to be used, and is drawn through the perforations and loops, the latter act as tension-guides, and by their elasticity prevent the delivery of more thread than is required. E denotes the base of the thread-cutting apparatus. It is loosely mounted in a socket formed in the upper part of the thread-guide C. F denotes the block upon which the thread to be cut is placed. It is arranged to revolve on the base E in such a manner as to bring various parts of its surface, as they become worn, in contact with the cutter. The block F is by preference made of hard wood, which will not injure the edge of the cutter, and when it has become worn from long use it may be removed and its place supplied with a new block. An arm, *e*, extends out and upward from the base E, and to its outer end the lever or handle G of the cutter is pivoted. H denotes the cutter. It is connected with the handle G, and capable of a longitudinal movement by means of a slot, *f*. A set-screw, I, passes through the slot and connects with the cutter, and by it the latter is adjusted with relation to the edge of the cutting-block F.

The base of the cutting apparatus being loosely mounted upon the thread-guide, it may be turned in order to bring the cutter on a line with each separate spool. When this is done the thread is passed over the block F and severed by the cutting-blade H.

The peculiar adjustment of the cutter, as shown and described, I am aware is not novel, such feature having been before employed in cloth-cutters.

By my arrangement of the cutter it is readily applicable to the cutting of button-holes, the length of the button-hole being regulated by the adjustment of the blade with relation to the edge of the block F in the usual manner.

I am well aware that, broadly, it is not new to combine thread-cutters with spool-stands; but I know of none prior to my invention which involved the peculiarities of construction and operation herein set forth.

I claim as new and desire to secure by Letters Patent—

1. The thread-guide C provided with the elastic band D, in combination with a series of spool-holders, substantially as and for the purpose specified.

2. The combination of the spool-stand, substantially as herein described, with the cutting apparatus arranged to operate horizontally and to revolve on a vertical axis, as and for the purposes specified.

LEWIS F. WARD.

Witnesses:
JAS. H. TRIPP,
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