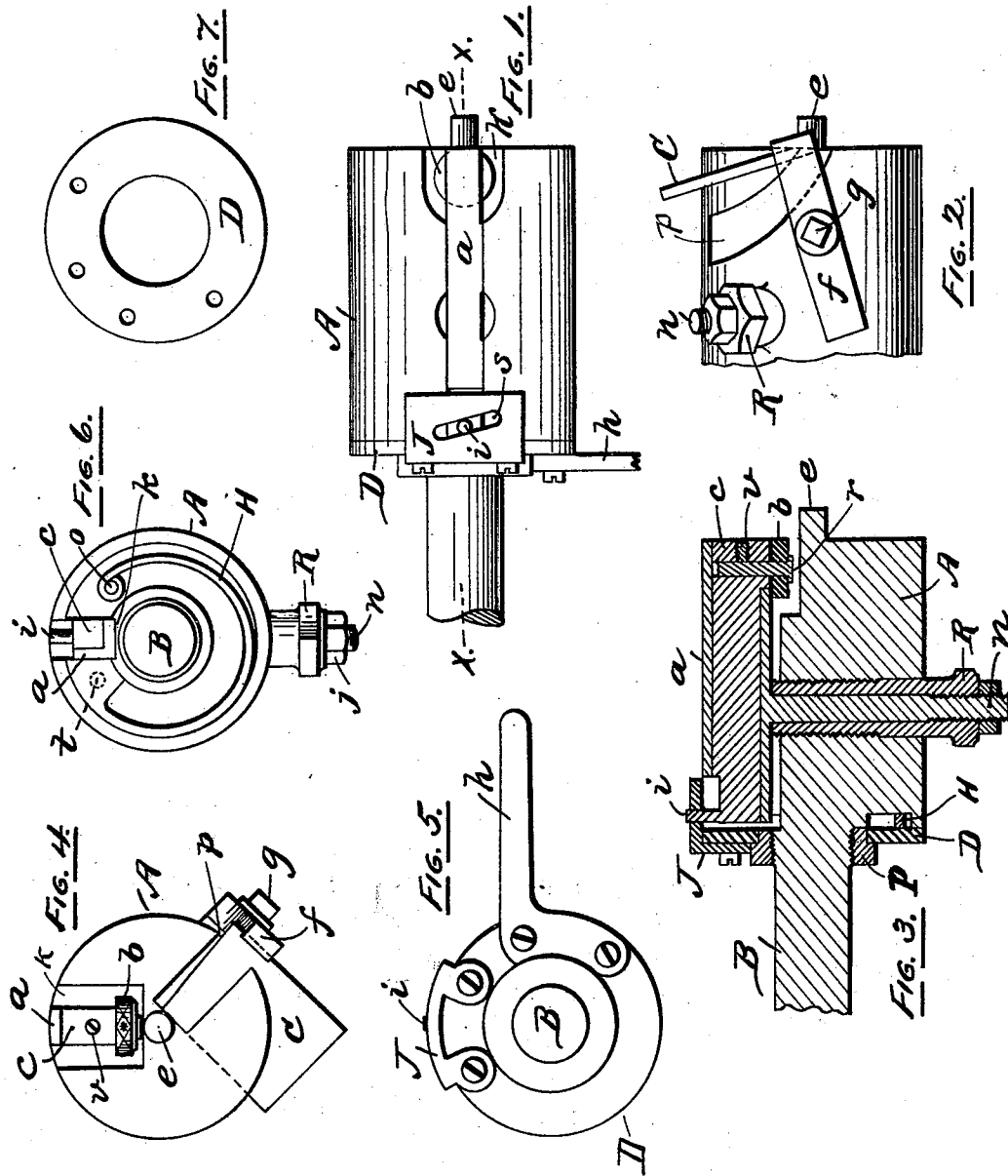


(No Model.)

J. F. WARDLE.
SPOOL MAKING MACHINE.

No. 520,509.

Patented May 29, 1894.



Witnesses:

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E. B. Read

Inventor:

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UNITED STATES PATENT OFFICE.

JOHN F. WARDLE, OF PAWTUCKET, RHODE ISLAND.

SPOOL-MAKING MACHINE.

SPECIFICATION forming part of Letters Patent No. 520,509, dated May 29, 1894.

Application filed March 8, 1894. Serial No. 502,798. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. WARDLE, of Pawtucket, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Spool-Making Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to that class of devices used for making and marking spools used for holding sewing thread and other like purposes. It is fully illustrated in the accompanying drawings.

Figure 1, shows the top view of the device. Fig. 2, is a view of the under side of a part of the device, showing the location of the knife. Fig. 3, represents a longitudinal section taken through the center on line *x, x*, Fig. 1. Fig. 4, is an elevation of the right end or face of the device. Fig. 5, is an elevation of the left end or rear. Fig. 6, shows the rear end, with the plate seen in Fig. 7, removed. Fig. 7, is a plate attached to the back end to move the marking bar.

This device or tool is intended for use in a mandrel or arbor in a machine for the purpose of cutting or trimming off the face of the spool head and marking it, practically at one operation, with figures ornamental or expressing some idea. It consists of a cylindrical body A, having a shank B, at one end to insert in the arbor to drive it by. A recess *p*, is made diagonally across the side of the body A, (see Figs. 2 and 4,) at the front end, to hold a knife C, to shave the face of the spool head, and a bar *f*, is placed with one end resting in the side of the knife and its other end on the body A, and a screw bolt *g*, passes through the bar and screws in the body to hold the knife in place. A groove or recess *k*, is made in the top side of the body A, its whole length and extending nearly in to the center to receive the case *a*, that is grooved out to hold the marker bar *c*. The case *a*, has a shank *n*, on the under side, that extends clear through the body A, and has a nut *j*, screwed onto its outer end to hold the

case in place. A tubular socket R, surrounds this shank *n*, and has a screw thread cut on its inner end fitting into a screw thread in the body A, with the inner end of the socket R, resting against the under side of the case *a*, so that when the socket R, is turned by its squared outer end, the case *a*, is pushed out farther from the center, or vice versa, the object being to run the marker held by this case *a*, at any desired distance from the center of the body. The case *a*, is open on one side, and a bar *c*, is fitted to slide in it to hold the marking wheel or knurl *b*, which is held on a pivot fastened in the bar *c*, by a set screw *v*, in the end of the bar. It is moved endwise with the wheel, by a pin *i*, in its back end, which slides in a diagonal slot *s*, in a plate J, attached to a loose washer D, held on the back end of the body A. The washer D, is held in place on a screw collar P, screwing onto a shoulder on the shank B, and has an arm *h*, attached to it to move it by. The back end of the body A, under the plate D, is recessed in to receive a spring H, (see Fig. 6,) one end of the spring being held fast by screw *t*, and a hole *o*, in the other end receives the pin *o'*, in the washer D, so that when the washer D, is moved over to the left by the arm *h*, as in Fig. 5, and released, the spring H, will move it back again.

The operation of the parts when in use is this: The shank B, of the tool being inserted in a mandrel, the spool blank is pressed against the right end of the body A, the teat *e*, entering the hole in the spool, and the knife C, will shave the end of the blank smooth, then the arm *h*, is thrown up, turning the washer D and curved plate J, causing the slot *s*, to move the pin *i* and bar *c*, to the front of the body A, and press the marking wheel *b*, against the end of the spool blank and indent its figures in the head of the spool. When it is desired to change the position of the marking wheel *b*, farther from the center of the tool to accommodate a larger spool, the socket R, is screwed farther in, by its squared head, and the case *a*, and bar *c*, with the wheel *b*, will be carried farther out, and they may be drawn in by turning the socket in the opposite direction, and by tightening the nut *j*,

the socket will be prevented from turning of itself, and changing the position of the marker when in use.

Having thus described my improvements, I claim as my invention—

1. In a tool for shaving the ends of spools, the combination with the knife and its holder, of a marking device held in said knife holder, and means for moving the marking device
10 against the head of the spool, substantially as described.

2. In a tool for making spools, a cylindrical body carrying a knife to shave the heads of the spools, a movable bar located in a groove
15 in said body and having a marking wheel held on a pivot at its end, with means substantially as described for adjusting the marking device to and from the center line of the tool, and means for sliding the marking de-
20 vice out against the spool head, substantially as set forth.

3. The combination in a tool for making spools of a cylindrical body carrying a knife

to shave the head of the spool, a bar carrying a marking device sliding in a slot in said tool
25 body and having a pin in its back end, a plate having a diagonal slot to receive said pin, a washer placed at the rear end of the body of the tool to hold said plate, and an arm attached
30 to said plate to move it by, substantially as described.

4. The combination in a tool for making spools, of a cylindrical body carrying a knife to shave the heads of the spools, a case held
35 in a groove in said body, having a bar sliding in it with a marking wheel pivoted to it, said case having a shank extending through the body of the tool and surrounded by a socket having a screw thread on it fitting into a
40 screw thread in the body, said shank having a screw nut fitted on its outer end, substantially as described.

JOHN F. WARDLE.

Witnesses:

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