F. C. SCHOLLER.

DEVICE FOR LUBRICATING THREAD OR YARN.

APPLICATION FILED DEC. 26, 1907.

918,776. Patented Apr. 20, 1909.

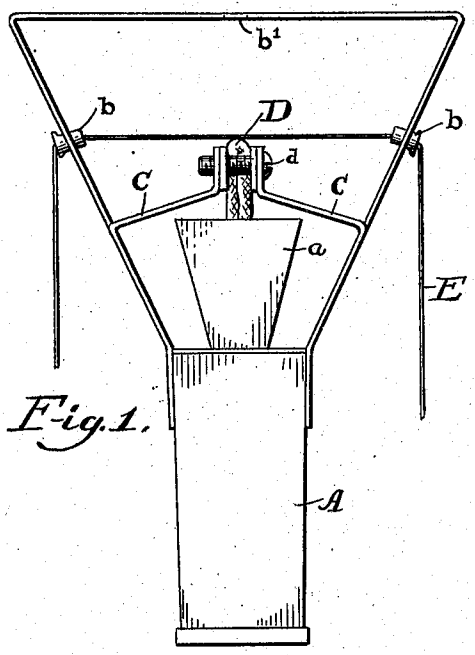


Fig. 1.

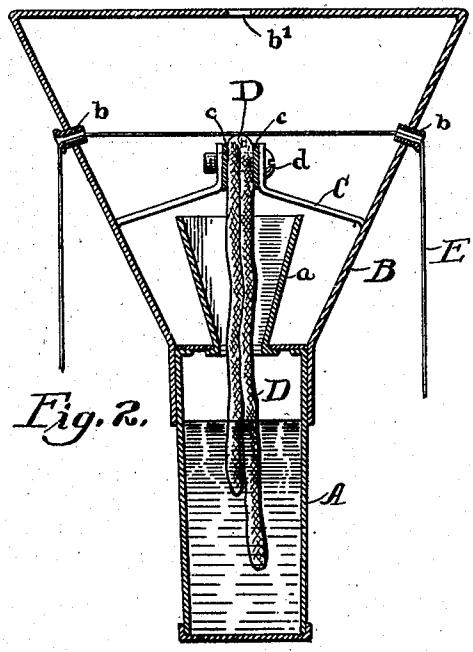


Fig. 2.

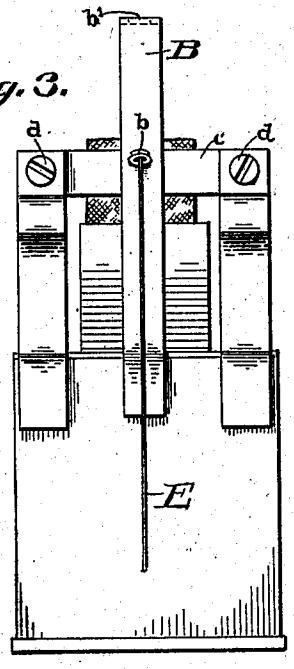
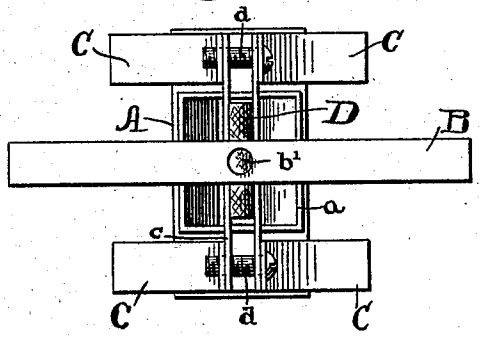


Fig. 3.

Fig. 4.



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DEVICE FOR LUBRICATING THREAD OR YARN.

No. 918,776. Specification of Letters Patent. Patented April 20, 1909.

Application filed December 26, 1907. Serial No. 408,135.

To all whom it may concern:

Be it known that I, FREDERICK C. SCHOLLER, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Devices for Lubricating Thread or Yarn, of which the following is a specification.

My invention relates to devices for lubricating yarn or thread and has particular reference to lubricating the yarn used in knitting stockings or similar fabrics.

The object of my invention is to supply a liquid lubricant in the exact quantity necessary to make the thread loop nicely over the needles when knitting any fabric and to increase or diminish this supply as may be required to suit the purpose and the material used.

In the accompanying drawing Figure 1, is a side elevation of my device ready to be attached to a knitting machine. Fig. 2, is a vertical section through the middle. Fig. 3, is an end elevation and Fig. 4, is a plan view.

A, is the font or reservoir containing the liquid lubricant, *a*, a funnel shaped neck on the top of the reservoir.

B, is a frame or extension attached to the reservoir A, and has secured therein on opposite sides, the eyelets *b*, *b*, through which the yarn passes.

C, C, are four arms or supports to which the clamps *c*, *c*, are secured by means of the screws *d*, *d*.

D, is the wick held in position by the clamps *c*, *c*, and extending downward through the funnel shaped neck *a*, into the lubricant; this wick I prefer to have doubled over in the manner shown, but it may be used single if desired. The wick may be raised or lowered slightly by bending the clamp holding arms C, C, up or down or the device may be provided with a wick raising device similar to that used in lamps.

E, is the yarn passing through the eyelets *b*, *b*, and going from thence directly to a knitting machine or to a winding machine; *b'*, is an opening or hole in the top of the frame B, through which a hook or screw is inserted for attaching the device to a stocking machine.

After being constructed in the manner shown and filled with a proper liquid lubricant the operation is as follows: The device is attached to the knitting machine by any convenient means and the thread or yarn E, is inserted through the eyelets *b*, *b*, and the end passed on to the knitting machine. When the knitting machine is put into operation the yarn will pass over the top of the wick D, taking up the lubricant; if too much of the lubricant is absorbed, the screws *d*, *d*, are tightened so that less will be taken up by the wick; if enough oil is not taken up by the yarn as it passes over the wick, the screws *d*, *d*, are loosened slightly. A similar result may be obtained by raising or lowering the wick, but the nicest adjustment is secured by turning the set screws so as to tighten or loosen the hold of the clamps *c*, *c*, on the wick D. When the flow of the oil is regulated by the clamps the tension on the yarn is not interfered with as would be the case if the wick was raised or lowered. The funnel shaped neck *a*, will catch any drip that falls from the thread as it passes over the wick and convey it back into the reservoir A.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States is:

1. In a thread or yarn lubricating device, a reservoir having an upwardly extending funnel shaped drip-catching neck, a wick holder above said reservoir, a wick in said wick holder having its upper portion projecting above said holder and its lower end extending down through said funnel-shaped neck into said reservoir, screws connecting the opposite sides of said wick holder to move them positively and unyieldingly toward and from each other for the purpose of regulating the flow of lubricant to the upper portion of said wick, and thread or yarn guides so positioned that the thread or yarn passing therethrough will bear lightly on the upper portion of said wick, for the purpose set forth.

2. A thread or yarn lubricating device consisting of a reservoir, an upwardly extending funnel-shape drip-catching neck, and an upwardly extending tri-angular shaped bracket secured to said reservoir, a wick holder positioned above said reservoir and connected therewith, screws connecting the opposite sides with said wick holder to cause the same to move toward or from each other, whereby a wick held in said holder,

and extending into said reservoir, may be so compressed that the flow of lubricant to the top thereof will be regulated, and yarn guides carried by said triangular brackets so positioned that the yarn passing therethrough will press lightly on the upper portion of the wick.

In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK C. SCHOLLER.

Witnesses:
THOS. D. MOWLDS,
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