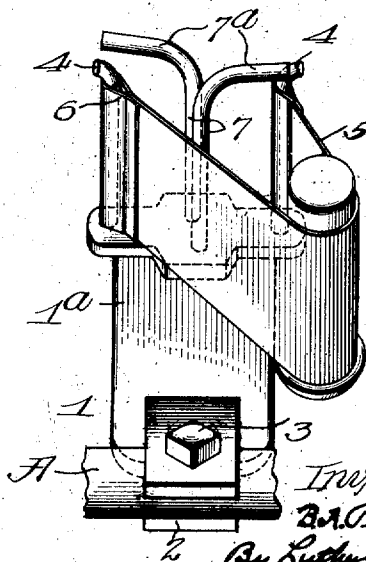
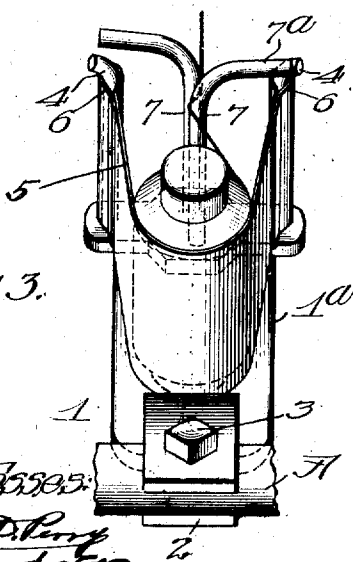
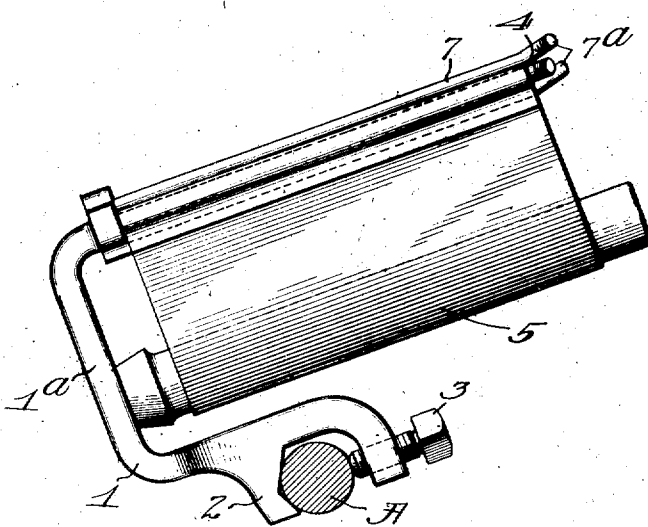
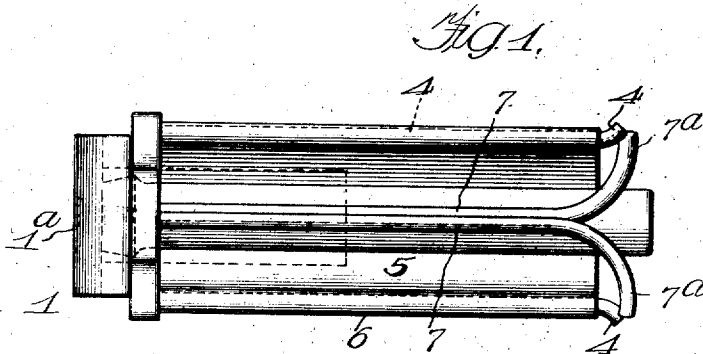


B. A. PETERSON.
BOBBIN HOLDER.
APPLICATION FILED NOV. 30, 1908.

1,045,879.

Patented Dec. 3, 1912.



Witnesses:

Geo. D. Perry
Robert A. Miller

Inventor:

B. A. Peterson
By Luther L. Miller
Att.

UNITED STATES PATENT OFFICE.

BURT A. PETERSON, OF ROCKFORD, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO
BARBER-COLMAN COMPANY, OF ROCKFORD, ILLINOIS, A COPARTNERSHIP.

BOBBIN-HOLDER.

1,045,879.

Specification of Letters Patent.

Patented Dec. 3, 1912.

Application filed November 30, 1908. Serial No. 465,391.

To all whom it may concern:

Be it known that I, BURT A. PETERSON, a citizen of the United States, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Bobbin-Holders, of which the following is a specification.

This invention relates to bobbin-holders used upon spooling frames and other textile machinery.

Jumping of the bobbin due to irregularities in the form of the yarn mass thereon and to the unyielding character of the bobbin holder, has heretofore limited the speed at which the yarn may be unwound.

One of the objects of this invention is to provide a bobbin-holder which shall be capable of yielding to conform to any irregularities in the shape and size of the yarn mass, whereby contact of the irregularities upon the rapidly rotating yarn mass with the holder is cushioned, and excessive jumping of the bobbin prevented.

Another object is to provide a bobbin-holder from which the spent bobbin may be easily and quickly ejected.

A further object of the invention is to simplify and cheapen the cost of devices of this class.

In the accompanying drawings Figure 1 is a top plan view of a bobbin-holder embodying the features of my invention. Fig. 2 is a side elevation of said bobbin-holder, as arranged upon a spooling frame. Figs. 3 and 4 are front end views, Fig. 3 representing a bobbin being unwound, and Fig. 4 showing an empty bobbin being ejected from the bobbin-holder.

The embodiment herein shown of my invention comprises a bracket 1 which may be provided with any suitable means for securing it in place upon a spooler or other machine. The means herein shown for mounting the bobbin-holder consists of the clamping jaw 2 and the set screw 3, A indicating the ordinary supporting bar of a spooler frame. To the upper end of the bracket 1 are fixed two parallel arms 4 which support a loop of flexible material to form a holder or pocket 5 for the bobbin. Said pocket may be formed from cloth or other suitable material, the cloth being looped over the arms 4 as indicated at 6 (Fig. 3), and the over-lapping portions being secured by sewing or in any other suit-

able manner. The outer ends of the arms 4 may be bent slightly, as indicated in the drawings, to retain the pocket upon said arms. The pocket 5 is open at its forward and rear ends, the bobbin being inserted through the forward end of the pocket and the portion 1^a of the bracket 1 forming a backstop for the bobbin.

In the embodiment which has been selected for illustration, the yarn is unwound through the upper end of the pocket 5. To prevent the bobbin from jumping out of the pocket, suitable means may be provided, such as one or more arms 7 overhanging the pocket and extending substantially midway between and parallel with the arms 4. Two arms 7 may be used, as herein shown, in order that tension may be placed upon the yarn by causing it to pass upward between said arms, as indicated in Fig. 3. The outer ends 7^a of the arms 7 may diverge, as shown, to form a guide for the insertion of the thread between the arms 7 by the operator.

To obviate friction upon the bobbin, the inner side of the pocket 5 is preferably smooth, a result that may be obtained by making the pocket of such material as tracing cloth, muslin coated with oxidized linseed oil, etc. When the inner side of the pocket becomes worn, the pocket may be drawn off the arms 4, reversed, and replaced upon said arms.

The material from which the pocket is constructed being flexible, it will be evident that the lower end of said pocket will conform at all times to the periphery of the yarn mass upon the bobbin. The bottom and side walls of the pocket also accommodate themselves to irregularities in the contour of the yarn mass, whereby excessive jumping of the bobbin is prevented, and a greatly increased speed of the spooling frame is rendered possible. I have found in practice that bobbins supported in bobbin-holders embodying my invention may be unwound at more than three times the speed practicable with the bobbin-holders now in common use.

When the yarn upon the bobbin has been unwound, the operator ejects the bobbin from the pocket 5 by swinging said pocket laterally until the butt end of the bobbin has been carried to one side of the backstop 1^a, whereupon the bobbin slides out of the pocket and may be received upon the belt conveyer com-

monly provided on spooling frames for the spent bobbins.

I would have it understood that I desire not to be limited to the details of construction herein shown and described, for various modifications will occur to persons skilled in the art.

I claim as my invention:

1. A bobbin holder for spooling frames and the like comprising a bobbin container having a flexible bottom and flexible sides composed of yielding material suspended at its upper edges to permit said container to yield to the movements of a rapidly rotated bobbin and supporting means for said bobbin container.

2. A bobbin holder for spooling frames and the like comprising a loop composed of flexible sheet-material and means for suspending said loop.

3. A bobbin holder for spooling frames and the like comprising a loop composed of textile material and means for suspending said loop.

4. A bobbin holder for spooling frames and the like comprising a loop composed of sheet-material and means for suspending said loop, said suspending means adapted to support the loop at opposite sides thereof.

5. A bobbin holder for spooling frames and the like comprising supporting arms and a loop composed of sheet material adapted to be attached at its opposite sides to said arms.

6. A bobbin holder for spooling frames and the like comprising two supporting arms and a loop of flexible material supported by said arms.

7. A bobbin holder for spooling frames and the like comprising two supporting arms and a loop of textile material having attaching loops at its opposite edges for the reception of said supporting arms.

8. A bobbin holder for spooling frames

and the like comprising a loop composed of flexible sheet-material having a smooth surface for contacting the bobbin and means for suspending said loop.

9. A bobbin-holder for spooling frames and the like comprising a bracket, two arms fixed to the upper portion of said bracket, and a loop of flexible material supported by said arms, said loop being open at its forward and rear ends, and said bracket forming a backstop for the bobbin.

10. A bobbin-holder for spooling frames and the like comprising a bobbin-receiving loop and a backstop for the bobbin, said loop being laterally movable to carry the bobbin away from said backstop.

11. A bobbin-holder for spooling frames and the like comprising a bobbin-receiving loop of flexible material, and a backstop for the bobbin, said loop being laterally movable to carry the bobbin away from said backstop.

12. A bobbin-holder for spooling frames and the like comprising a bobbin-receiving loop of flexible material, and means providing a stationary support for said loop and a backstop for the bobbin, said loop being adapted to be swung to one side to carry the bobbin away from said backstop.

13. A bobbin-holder for spooling frames and the like comprising a bobbin-container having a bottom and flexible sides, said sides being capable in use of conforming to the shape of the bobbin, whereby the bobbin is free to find its own center of rotation.

14. A bobbin-holder for spooling frames and the like comprising a bobbin-container having a yieldable bottom and flexible sides, said sides being composed of textile sheet material.

BURT A. PETERSON.

Witnesses:

HOWARD D. COLMAN,
L. A. CULVER.

Corrections in Letters Patent No. 1,045,879.

It is hereby certified that in Letters Patent No. 1,045,879, granted December 3, 1912, upon the application of Burt A. Peterson, of Rockford, Illinois, for an improvement in "Bobbin-Holders," errors appear in the grant and in the heading to the printed specification requiring correction as follows: In the grant strike out lines 9-11, and insert the following statement:

He having assigned his right, title, and interest in said improvement, by mesne assignments, to Howard D. Colman, Luther L. Miller, and Harry A. Severson, copartners, doing business as Barber-Colman Company, of Rockford, Illinois,

Strike out the first two lines of the granting clause and insert the following:

Now, therefore, these Letters Patent are to grant unto the said Howard D. Colman, Luther L. Miller, and Harry A. Severson, copartners, doing business as Barber-Colman Company, of Rockford, Illinois, their heirs or assigns

In the heading to the printed specification, strike out the words "to Barber-Colman Company, of Rockford, Illinois, copartnership," and insert the words *to Howard D. Colman, Luther L. Miller, and Harry A. Severson, copartners, doing business as Barber-Colman Company, of Rockford, Illinois;* and that the said Letters Patent should be read with these corrections therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 18th day of March, A. D., 1913.

[SEAL.]

C. C. BILLINGS,

Acting Commissioner of Patents.

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