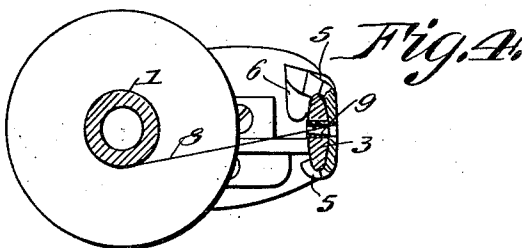
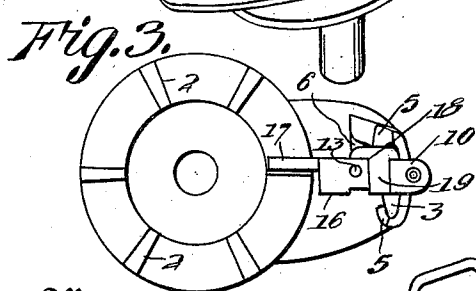
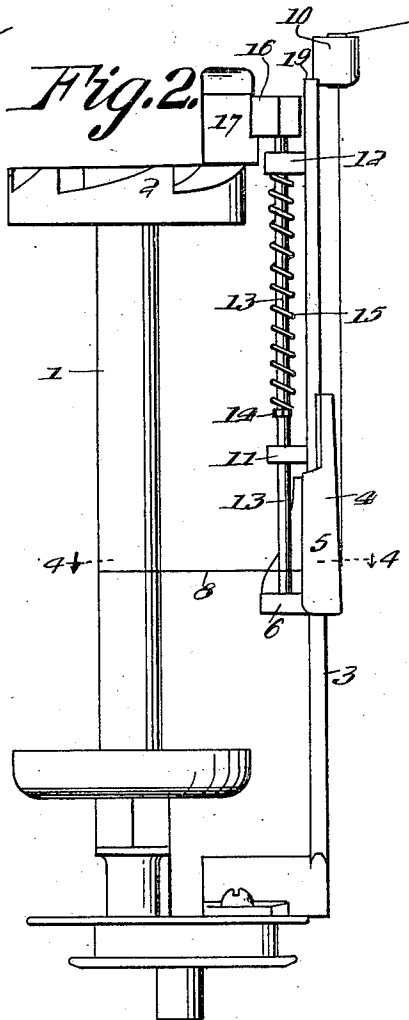
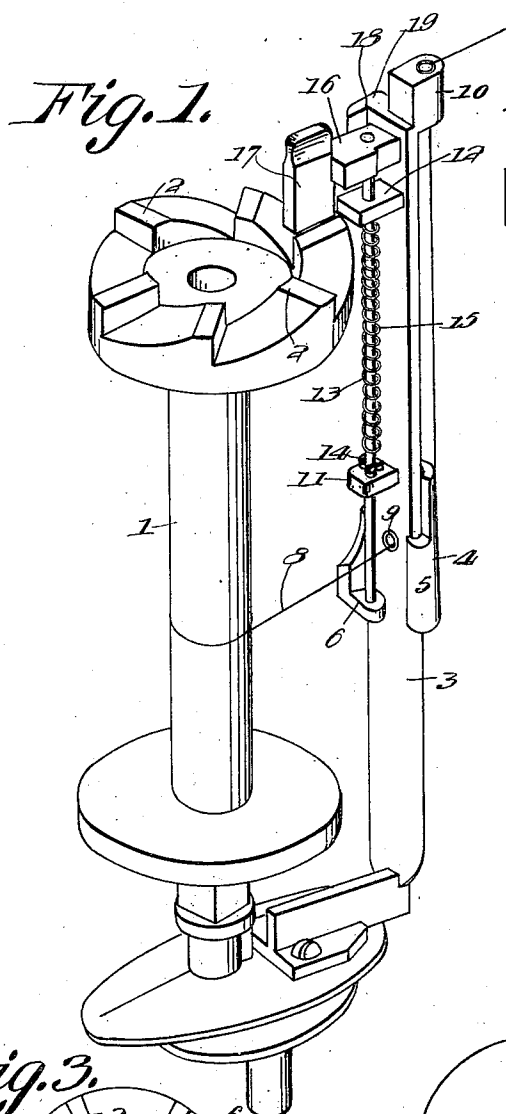


J. E. CHACE.
BRAIDING MACHINE CARRIER.
APPLICATION FILED SEPT. 26, 1911.

1,041,590.

Patented Oct. 15, 1912.



Witnesses
Annie F. Miller
Ada E. Hagerty.

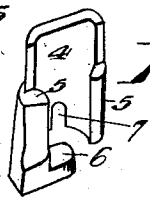


Fig. 5. Inventor
John E. Chace
Joseph A. Miller
Attorney

UNITED STATES PATENT OFFICE.

JOHN EDDY CHACE, OF SOUTH ATTLEBORO, MASSACHUSETTS.

BRAIDING-MACHINE CARRIER.

1,041,590.

Specification of Letters Patent.

Patented Oct. 15, 1912.

Application filed September 26, 1911. Serial No. 651,399.

To all whom it may concern:

Be it known that I, JOHN EDDY CHACE, a citizen of the United States, residing at South Attleboro, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Braiding-Machine Carriers, of which the following is a specification.

This invention relates to certain new and useful improvements in braiding machine carriers, and the object of the invention is to provide improved latch means for the bobbin.

A further object of the invention is to generally simplify, improve and increase the efficiency of the latching means, and to provide a construction in which the bobbin may be removed by use of but one hand of the operator in a single operation.

In the drawings: Figure 1 is a perspective view of the invention. Fig. 2 is a side elevation. Fig. 3 is a top plan view. Fig. 4 is a section on the line 4—4 of Fig. 2, and Fig. 5 is a detached perspective view of the weight.

1 designates the bobbin having its head formed with the usual ratchet teeth 2.

3 designates a vertical standard on which the weight 4 slides. The weight 4 is constructed to have opposite guides which slidably receive the standard 3, one of the guides 5 being enlarged as shown and provided with an inwardly extending foot 6. The body of the weight 4 is provided with a notch 7 in its bottom edge for the purpose of receiving the thread 8. The standard 3 is formed with a guide eye 9 through which the thread 8 passes, the latter then being extended downwardly between the standard 3 and the inner face of weight 4 and being passed through the slot 7 of the latter and then extending up along the length of the standard and through the guide eye 10 at the top of the latter. The standard 3 is provided with outwardly extending perforated lugs 11 and 12 through the perforations of which a rod 13 is slidably passed. Rod 13 has a cotter pin 14 rigidly affixed to its lower end and has a coiled spring 15 surrounding the same, the lower end of the coiled spring abutting the cotter pin and the upper end of the spring being for engagement with the under face of lug 12. A rectangular head 16 is rigidly secured to the upper end of rod 13 and carries a latch 17 at its outer end. Standard 3 at its upper

end is formed with a right angular guide way 18 in which the rectangular head 16 slides and is thereby held against any rotating movement. The upper end of the standard provides a seat 19. When it is desired to place a new bobbin on the carrier or for any other purpose it is desired to remove the bobbin from the carrier, the bobbin is lifted by one hand of the operator carrying with the same the latch 17 and its associated parts against the tension of spring 13, until the lower face of the head 16 occupies a position above the seat 19, whereupon the operator imparts a slight rotary movement to the bobbin toward the left, which will obviously cause one of the ratchet teeth 2 to move the latch 17 toward the right, causing the under face of the head 16 to overlies the seat 19 and allowing spring 13 to enter into action, drawing the head 16 down to the seat 19 and holding the latch locked in inoperative position.

In the operation it will be understood that when tension is exerted on the end of the cord 8 above the guide eye 10 the weight 4 will be lifted, bringing its foot 6 into engagement with the lower end of rod 13, raising the latter until the spring 15 contacts with the face of the lug 12 after which the movement will be against the tension of the spring 15, permitting the bobbin to be rotated until tension is released on cord 8 when the latch will be drawn to normal position by the action of the spring 15 and the weight 4.

Having thus described my invention, I claim as new and desire to secure by Letters Patent;—

1. In combination with a bobbin having ratchet teeth, a standard having an angular guide way and a seat above the same, a rotatable sliding latch carried by the standard and moving in said guide way so as to be held thereby against rotating movement, said bobbin when raised and rotated causing a corresponding movement of the latch to first raise the latter above the guide-way to permit the same to be rotated and moved down to engage said seat.

2. In combination with a bobbin having ratchet teeth and a standard, lugs carried by the standard and having perforations, a rod extending through said perforations, a projection on the rod, a coiled spring surrounding the rod and engaged between said projections and one of the lugs to normally

exert downward tension on the rod, a rectangular head carried by the rod, a latch carried by the head, said standard having a right angular guide-way in which the head
5 slides so as to have a non-rotating movement, said standard having a seat above said guide way thereof to receive and engage said head when the latter is moved out of the guide-way and given a partial turn,
10 and a weight having a foot to engage the lower end of the rod to raise the latter.

3. In combination with a bobbin having ratchet teeth, latching means to engage the ratchet teeth, means to normally prevent rotation of said latching means, said latching
15 means being movable out of engagement with said means, and being rotatable when

out of engagement with said last named means to be locked in inoperative position.

4. In combination with a bobbin having 20 ratchet teeth, spring latching means, means for providing a guide for the latching means which normally holds the latching means against rotation, and means whereby when the latching means is raised out of engagement 25 with said guide same will be held by said spring in inoperative position.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

J. EDDY CHACE.

Witnesses:

ADA HAGERTY,
J. A. MILLER.