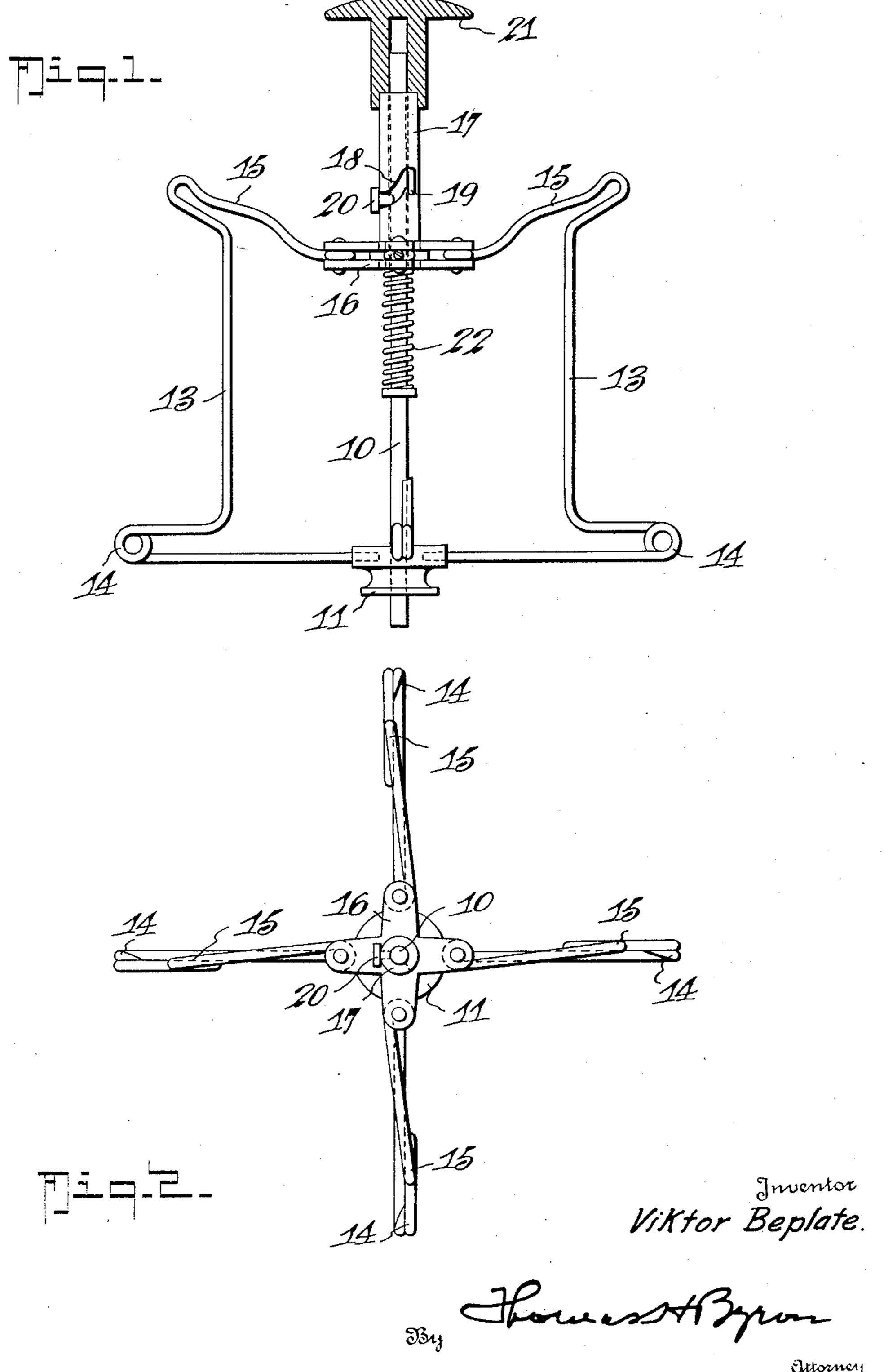
REEL

Filed April 27, 1932

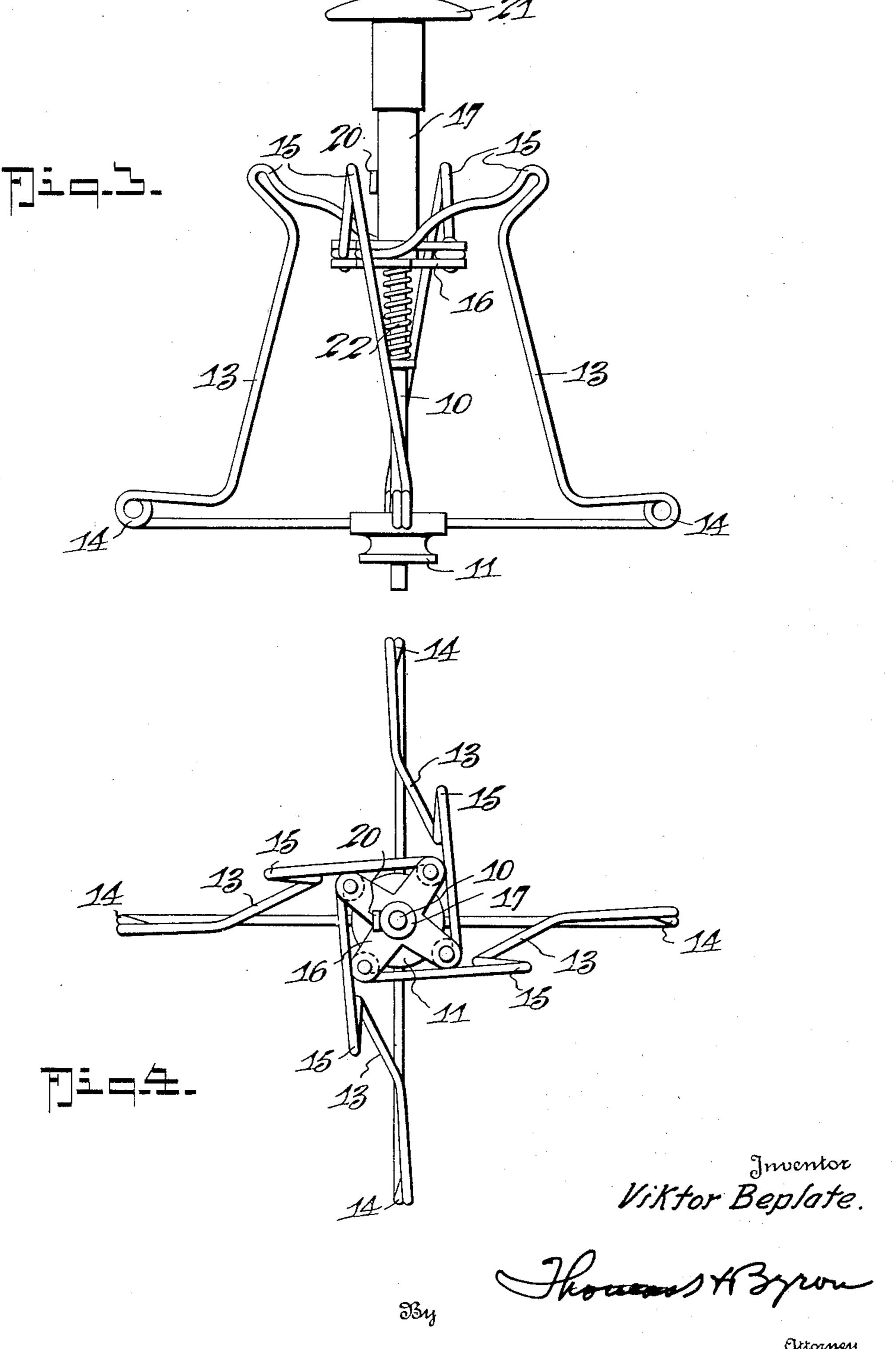
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REEL

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UNITED STATES PATENT OFFICE

viktor beplate, of sydowsaue near stettin, germany, assignor to american GLANZSTUFF CURPURATION, OF NEW YORK, N. Y., A CORPORATION OF DELAWARE

REEL

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for use in the handling of skeins and/or shaft or axle —10—. primary object of the invention is to prob vide a novel form of reel of the collapsible type.

Another object of this invention is to provide a new form of reel comprising a plurality of wire skeins or cake supporting in which the lug or key -20- secured to the 10 means so arranged and constructed as to perwhereby the said skeins or cakes may be or actuating knob -21- provided with a

15 provide a reel of the collapsible type so ar- to bear against the hub -16-. ranged and constructed as to be held in collapsed position to permit skeins or cakes to be easily placed thereon or removed therefrom.

These and other objects of this invention will become more apparent from a study of the following description and by reference to the attached drawings in which:

Figure 1 is a view in side elevation of the reel, certain parts thereof being broken away; Figure 2 is a top plan view thereof;

Figure 3 is a view in side elevation of the reel showing the same collapsed; and

Figure 4 is a top plan view of Figure 3. Referring now to the drawings in which like numerals indicate like parts, there is shown a reel which comprises a central shaft or axle —10— having fixedly secured thereto adjacent one end thereof a hub -11-. As is clearly shown in the drawings the skein and/or cake carrying means consist of a pluand/or skein positioned thereon from sliding or shifting, one end of each wire is bent radially outward, and coiled at —14— to provide a spring section, the free end thereof extending inwardly to the hub -11- to which it is fixedly secured in any suitable 2. A reel comprising a central shaft, a hub manner. The other end of each wire is bent outwardly in a transverse direction and then inwardly to form a spring loop —15—, the free end of each wire being pivotally secured

This invention relates to an improved reel to the hub —16—, movably mounted on the

cakes of artificial silk and the like, and the A sleeve —17— is formed integrally with the hub —16—. If desired, however, the sleeve may be connected to said hub in any 55 suitable manner. This sleeve is provided with a diagonal slot —18— terminating at its upper end in a locking slot —19— and shaft or axle is adapted to ride. The end 60 make of the collapsing of one end of said reel of the sleeve has secured thereto the handle readily placed thereon or removed therefrom. recess for the reception of the end of the shaft A further object of this invention is to or axle. A spring -22-is positioned so as

> In operation the actuating knob is moved inwardly forcing the hub —16— against the spring and at the same time the hub is rotated, in this instance counter-clockwise, by the key or lug riding in the diagonally dis- 70 posed slot. As is clearly shown in Figures 3 and 4, the rotation and axial displacement of the hub will twist the wires and shorten the radial distance thereof with respect to said hub, and collapsing the other end there- 75 of to permit a skein or cake to be readily placed in or removed from the reel. The pressure of the spring and the tension set up on the wires will cause the key or lug to engage in the slot and hold the reel in its col- 80 lapsed position.

The invention now having been described in accordance with the patent statutes, what is claimed as new is:

1. A reel comprising a central shaft, a hub 85 fixedly secured thereto adjacent one end rality of wire members. Each wire consists thereof, a second hub movably mounted thereof a central skein and/or cake receiving por- on adjacent the other end thereof, spring tion—13— extending parallel with the shaft means bearing against said movable hub, or cake of the reel, and to prevent a cake skein carrying means secured to said hubs, 90 and means to rotate said movable hub and press the same against said spring means, whereby the skein carrying means may be collapsed, and means for holding said carrying means in collapsed position.

> fixedly secured thereto at one end thereof, a second hub movably mounted thereon and spaced from said fixed hub, skein carrying means secured to said hubs, a sleeve associated 100

with said movable hub and having a trans- of said sleeve said hub is rotated and moved verse slot formed therein, a key secured to inwardly collapsing said reel, said key being said shaft and positioned in said slot whereby held in said locking slot by the resiliency of upon rotation of said sleeve said hub may be 5 rotated and moved inwardly, collapsing that

end of the reel secured thereto.

3. A reel comprising a central shaft, a hub fixedly secured thereto at one end thereof, a second hub movably mounted thereon and spaced from said fixed hub, skein carrying means secured to said hubs, a sleeve associated with said movable hub and having a transverse slot formed therein, a key secured to said shaft and positioned in said slot and a 15 spring bearing against said movable hub, whereby upon rotation of said sleeve said hub may be rotated and moved inwardly, collapsing that end of the reel secured thereto, said transverse slot communicating with a locking slot for the reception of said key whereby said reel may be held in collapsed position by the pressure of said spring.

4. A reel comprising a central shaft, a hub fixedly secured thereto at one end thereof, a second hub movably mounted thereon and spaced from said fixed hub, skein carrying means secured to said hubs, comprising a plurality of resilient wires, a sleeve associated with said movable hub and having a transverse slot formed therein, a key secured to said shaft and positioned in said slot and a spring bearing against said movable hub, whereby upon rotation of said sleeve said hub

may be rotated and moved inwardly, collapsing that end of the reel secured thereto.

5. A reel comprising a central shaft, a hub fixedly secured thereto at one end thereof, a second hub movably mounted thereon and spaced from said fixed hub, skein carrying means secured to said hubs, comprising a plurality of resilient wires, a sleeve associated with said movable hub and having a transverse slot formed therein, a key secured to said shaft and positioned in said slot and a spring bearing against said movable hub, whereby upon rotation of said sleeve said hub may be rotated and moved inwardly, collapsing that end of the reel secured thereto, said transverse slot communicating with a locking slot for the reception of said key whereby said reel is held in collapsed position.

6. A reel comprising a central shaft, a hub fixedly secured thereto, a second hub movably mounted thereon and spaced from said fixed hub, skein carrying means secured to and connecting said hubs consisting of a plurality of resilient wires, each wire comprising a skein carrying section extending parallel to said shaft and a pair of outwardly extending sections to prevent displacement of said skein, a sleeve associated with said movable hub having a transverse slot formed therein and a locking slot communicating therewith, a key secured to said shaft and positioned on said transverse slot, whereby, upon rotation

said wires.

In witness whereof I affix my signature. 70 VIKTOR BEPLATE.

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