

A. ROSENBERG.
 THREAD CARRIER.
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Patented July 1, 1913.

Fig. 1

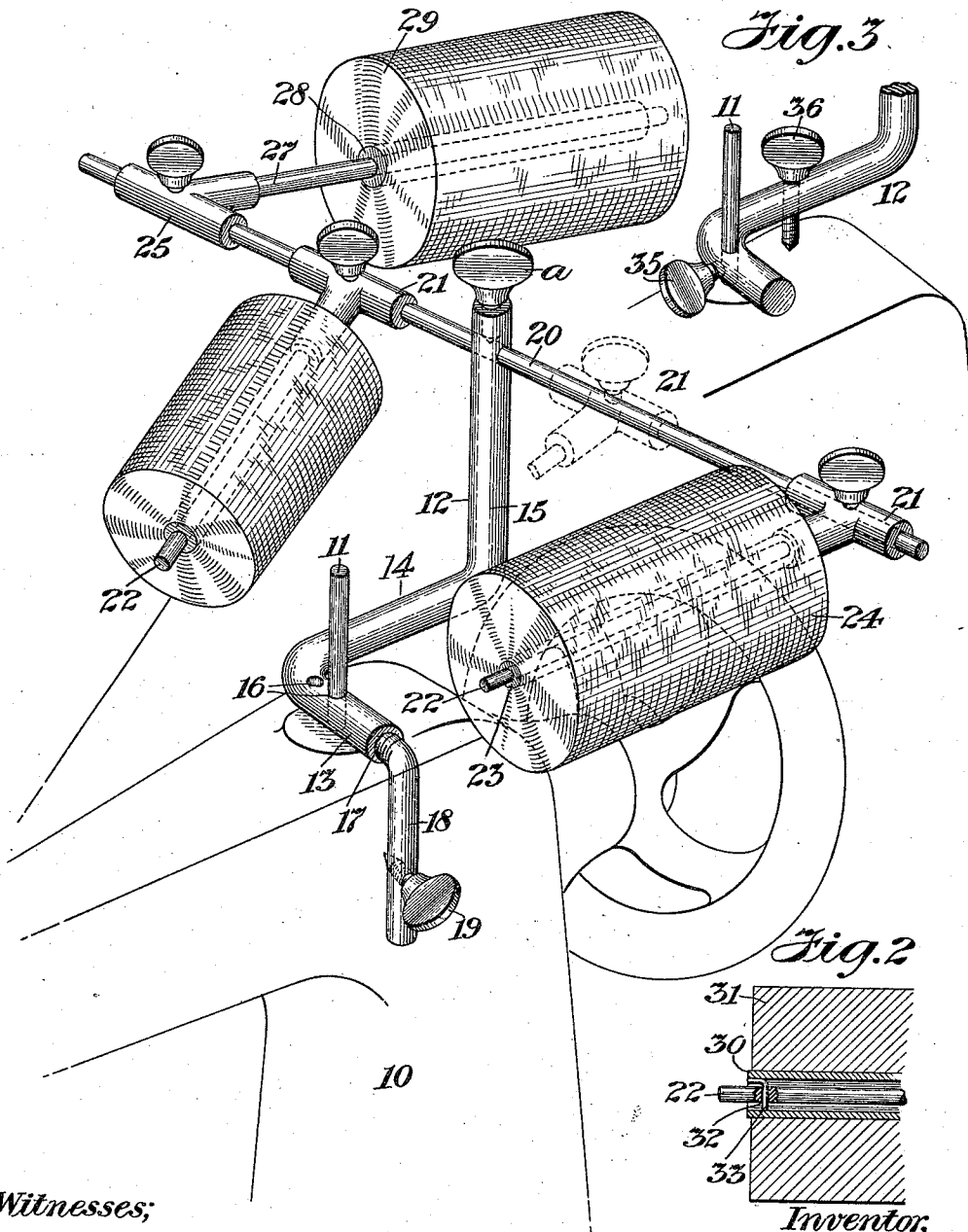
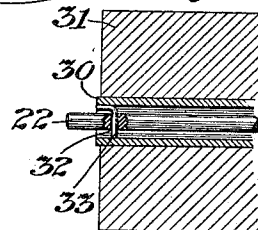


Fig. 3

Fig. 2



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THREAD-CARRIER.

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To all whom it may concern:

Be it known that I, ABRAHAM ROSENBERG, a citizen of the United States, residing in the borough of Manhattan, city, county, and State of New York, have invented an Improvement in Thread-Carriers, of which the following is a specification.

My invention relates to thread carriers, and the object thereof is the provision of a thread carrier which is adjustable and readily attachable to any sewing machine, provided with a spool-post, and furthermore is for the provision of a thread carrier by which a plurality of bobbins or spools may be so supported that in the use of a device comprising my invention, a single thread carrier may be employed to simultaneously support a plurality of spools or bobbins, making it possible to employ my invention equally well on machines using one, two, three or more needles at the same time.

Furthermore, my improved thread carrier is so constructed that when the bobbin or spools are placed on, the same are entirely out of the operator's way, and hence do not come in contact with or interfere in any manner with the work.

Still, furthermore, in the use of my invention, the spools or bobbins are so placed that the thread from each one is fed directly to the tension and to the needle without the intervention of any additional tension device whatsoever.

In carrying out my invention, I preferably employ a support-post adapted to fit over the spool-post of a sewing machine in one or a plurality of positions, adjustable devices co-acting with the spool-post to secure the support-post in position on the machine, and means secured to the support-post for carrying a plurality of bobbins or spools of thread, as will be hereinafter more particularly described.

In the drawing, Figure 1 is a perspective view of the thread carrier comprising my present invention, and shows the same as secured in position on the sewing machine, Fig. 2 is a partial cross section illustrating the manner in which the spools or bobbins of thread are secured in position on the cop-rod, and Fig. 3 is a perspective, illustrating a modification.

Referring particularly to the drawing, 10 designates the frame of a sewing machine, which may be of any type whatsoever, provided it is fitted with a spool-post 11, with

which ordinary sewing machines are supplied.

My improved thread carrier preferably comprises a member indicated at 12, and suitably made from a bar of metal or other similar material. This member is preferably formed to have sections 13, 14 and 15. Sections 13 and 14 being preferably formed at right angles to one another, and the section 15 at right angles to the sections 13 and 14, so that when in position on the machines, the sections 13 and 14 assume a substantially horizontal position, while the section 15 assumes a substantially vertical position.

In section 13 of the member 12, I preferably provide a series of transverse holes or openings, indicated at 16, through any one of which the spool-post of the machine is adapted to pass when the thread carrier is placed in position thereon. The end of the section 13 is preferably provided with a tapped opening 17 adapted to receive the screw thread end of the clamp-post 18, parts of which are at substantially right angles to one another, so that one part, the part having the free end, is adapted to extend downwardly, or in any other position, against the face of the machine. This clamp-post may be provided with a set-screw 19, by means of which, as will be apparent, the thread carrier may be secured in position. It will be apparent that by the adjustability of the clamp-post 18, relatively to the section 13, and also by the employment of the series of openings 16 in this section 13, the member 12 is adapted to be fitted upon and secured to any type and size of sewing machine which is provided with the ordinary spool-post.

At the upper end of the section 15 of the member 12, I provide a transverse opening adapted to receive a bobbin rod 20, and, as will be apparent, this bobbin rod 20 may be clamped in position by means of a set-screw *a* employed at the end of the section 15. On the bobbin rod 20, I employ a plurality of T-sleeves 21. Each of the T-sleeves is provided with its own set-screw, by means of which it may be adjustably secured in position on the bobbin rod 20. Connected to the leg of each T-sleeve 21 is a cop-rod 22, adapted to receive a cop 23, upon which a bobbin of thread 24 is wound. At the right hand end of the bobbin rod 20 I have illustrated the T-sleeve 25 placed in a reversed position,

and the reason for so doing is merely to illustrate the adjustability of these sleeves and to show the possibility of placing on the cop-rod 27 and cop 28 a bobbin 29, from which the thread may be readily taken in the opposite direction to form or make the bobbins of thread or for other purposes.

In Fig. 1, I have illustrated the cops, upon which the thread bobbins are wound, as of substantially the same diameter as the cop-rods upon which they are placed, but as a matter of fact, in actual practice, these cop-tubes vary in diameter and are generally larger than the cop-rods upon which they are placed, and in order to maintain the thread bobbins in position on the cop-rods, and as shown in Fig. 2, I may provide each cop-rod 22, adjacent to its outer end, with a hole 32, so that when the cop-tube 30, having thread bobbin 31 thereon, is passed over the cop-tube 22, I may pass a pin 33 through the hole 32 and then force the thread bobbin and its cop-tube back over the pin 33, the pin, as it will be understood, being of such a length as to engage and frictionally hold the cop-tube and its thread bobbin in position, so that the unwinding of the thread will not displace the bobbin. It will further be understood that these pins 33 may be made in any suitable shape so that one side of a pin will be adapted to secure a cop-tube and its bobbin of a certain diameter on the cop-rod, whereas the other side of the pin may be made longer or shorter to likewise maintain the cop-tube of a different diameter and its thread bobbin in position on the cop-rod.

As an equivalent and substitute fastening device for the clamp post 18, adjustable in the tapped opening 17 of the section 13 and for the set screw 19, I have shown in the modified form of my invention, illustrated in Fig. 3, a set screw 35 in the section 13 to be brought with force against the pin 11 and a thumb screw 36 through the arm adapted to be brought down upon the frame of the sewing machine or to enter a hole provided therein, so that the thread carrier may be securely held in the position desired.

I claim as my invention:

1. A thread carrier, comprising a support post adapted to fit over the spool post of a sewing machine in any one of a plurality of positions, adjustable devices co-acting with the said support post, the frame of the machine and the said spool post to secure the support post in position on the

machine, and means secured to the support post for carrying a thread bobbin.

2. A thread carrier comprising a support-post, two parts of which are formed at a substantially right angle to one another and the third part of which is formed at a substantially right angle to the said other parts, a clamp post adjustable to position in one end of said support-post, means for securing the clamp post against the surface of the frame of the machine, and means secured to the support-post for carrying a thread bobbin.

3. A thread carrier comprising a support-post, two parts of which are formed at a substantially right angle to one another and the third part of which is formed at a substantially right angle to the said other parts, a set-screw in the clamp-post, a bobbin-post secured to the opposite end of the support-post, a plurality of T-sleeves on the said bobbin-post, and a device connected with each of the said T-sleeves for supporting a thread bobbin.

4. A thread carrier comprising a support-post, two parts of which are formed at a substantially right angle to one another and the third part of which is formed at a substantially right angle to the said other parts, a set-screw in the clamp-post, a bobbin-post secured to the opposite end of the support-post, a plurality of T-sleeves on the said bobbin-post, a device connected with each of the said T-sleeves for supporting a thread bobbin, and means for securing the thread bobbin in position on the said device.

5. A thread carrier comprising a support post, two parts of which are formed at a substantially right angle to one another and the third part of which is formed at a substantially right angle to the said other parts, a set-screw in the clamp-post, a bobbin-post secured to the opposite end of the support-post, a plurality of T-sleeves on the said bobbin-post, a cop-rod connected to and extending from each one of the said T-sleeves, each cop-rod being provided with a hole passing transversely through the same adjacent to its free end, and a pin adapted to pass through the said hole in the cop-rod to frictionally engage the cop-tube upon which the thread bobbin is wound, to maintain the same in position.

Signed by me this 27th day of May, 1912.

ABRAHAM ROSENBERG.

Witnesses:

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