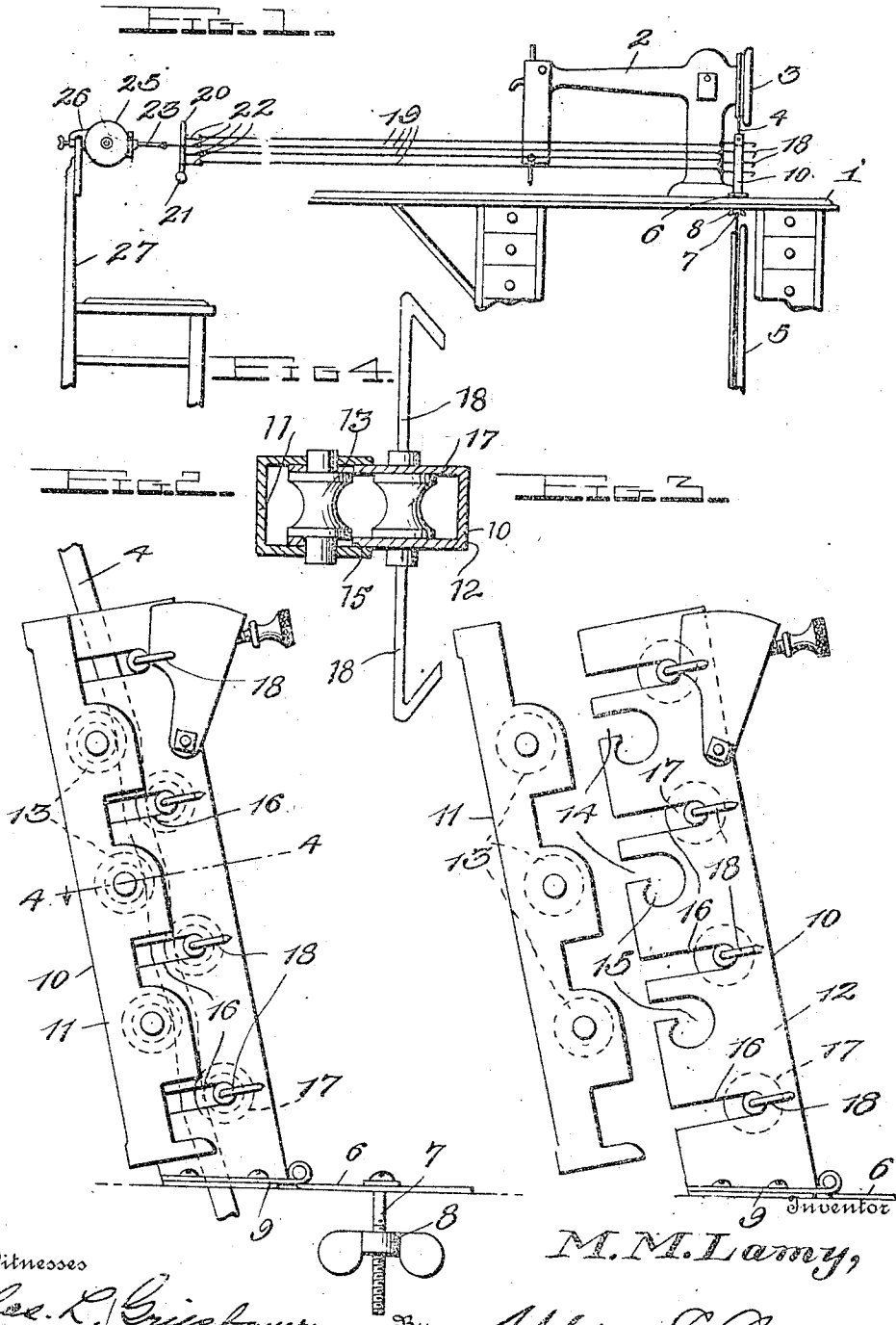


M. M. LAMY.
CORD AND ROPE MAKING DEVICE.
APPLICATION FILED SEPT. 28, 1912.

1,091,672.

Patented Mar. 31, 1914.



Witnesses
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UNITED STATES PATENT OFFICE.

MARY MAGDALENE LAMY, OF DAYTON, OHIO.

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1,091,672.

Specification of Letters Patent.

Patented Mar. 31, 1914.

Application filed September 28, 1912. Serial No. 722,920.

To all whom it may concern:

Be it known that I, MARY MAGDALENE LAMY, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Cord and Rope Making Devices, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to new and useful improvements in cord and rope making devices and more particularly to a device adapted for use in connection with a sewing machine of the usual or any desired type and the primary object of the invention is to provide a device for twisting a plurality of threads or cords in regularity to form a larger cord or rope, as the case may be.

A further object of the invention resides in providing a device having a plurality of movable pulleys thereon which are adapted to cooperate with the belt of a machine and a still further object resides in providing hooks on certain of the pulleys which are adapted to engage with the plurality of threads or cords to twist the latter as the pulleys are revolved.

With these and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts as will be hereinafter referred to and more particularly pointed out in the specification and claims.

In the accompanying drawing forming a part of this application, Figure 1 is a front elevation showing my device applied to use thereon. Fig. 2 is a side elevation of the member carrying the pulleys. Fig. 3 is a similar view thereof showing sections of the frame-work separated; and Fig. 4 is a horizontal section through the device as seen on line 4-4, Fig. 2.

In describing my invention, I shall refer to the drawings in which similar reference characters designate corresponding parts throughout the several views and in which 1 indicates a sewing machine table, upon which is mounted the body 2 of the machine which is provided with the usual fly-wheel 3 having a pulley in connection therewith, over which extends the belt 4. This belt extends through openings in the table 1 to be engaged with the lower operating wheel 5.

Mounted on the table 1 immediately adjacent the forward reach of the endless belt 4, is the twisting portion of my device which

consists first of a plate 6 secured to the table through the medium of a bolt 7 and winged nut 8. Hinged to the one end of the plate 6, is an additional plate 9 which is secured to the lower wall of a casing or housing 10 formed of the channel-shaped sections 11 and 12. The section 11 which is adapted to fit over the section 12 has revolvably mounted between the side walls thereof a plurality of pulleys 13 which are spaced at regular intervals from one another and the pintles thereof are adapted to be received in the slots 14 formed in the side walls of the section 12, said slots being curved downwardly and outwardly at their rear ends, as shown at 15, whereby the section 11 may be securely held to the section 12, when once positioned in engagement therewith. The side walls of the section 12 are also provided with a plurality of additional slots 16 which are straight and arranged alternate to the slots 14 and loosely mounted in these slots and adapted to be extended to the rear ends thereof, are the pintles of a plurality of additional pulleys 17.

The belt 4 of the machine is adapted to be received between the sets of pulleys 13 and 17 and when the section 11 is locked in engagement with the section 12, this belt will securely retain the pulleys 17 in the rear ends of the slots 16 and cause the same to be revolved as the machine is operated. It must be also here stated that the section 12 of the casing or housing 10 which is mounted on the plate 9, is inclined slightly rearwardly when positioned on the table of the machine to readily accommodate therein the one reach of the belt 4, which is usually also inclined in view of its extending from an upper smaller wheel to a lower larger wheel.

Extending from both sides of the pulleys 17 are the hooks 18 which, in the present instance, are extensions of the pintles thereof, but which may be engaged with the pulleys in any manner, if desired, and as it will be seen from this construction alone, that the pulleys 17 are operating pulleys, the other pulleys 13 will, for convenience, be termed idler pulleys. The hooks 18 are adapted to be engaged with a plurality of threads or cords 19 as shown in Fig. 1, and from this construction, it will be understood that as the machine is operated, the pulleys 17 will be caused to rotate, thereby rotating the hooks and causing the threads or cords

to be twisted. For engagement with the opposite ends of the threads or cords, I provide a bar 20 having a weight 21 at the lower end and provided with a plurality of hooks 22 extending from one face thereof. There may be as many hooks on the bar as are desired, preferably the same number as are provided on the one side of the twisting device, and the opposite ends of the threads or cords 19 are engaged with said hooks. This bar 20 of the cord holder is connected to one end of a cord or rope 23 which extends from a drum 25 which is provided with a clamp or the like 26 which may be clamped to any desired stationary object, I having shown a chair 27 for the purpose, in the drawing.

From the foregoing description of the construction of my device, the operation thereof will be readily understood and it will be seen that I have provided a simple, inexpensive and efficient means for carrying out the objects of the invention.

While I have particularly described the elements best adapted to perform the functions set forth, it is obvious that various changes in form, proportion and in the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the principles of the invention.

Having thus described this invention, what I claim is:—

1. A rope making attachment for sewing machines including a bracket adapted to be detachably secured to the sewing machine table in inclined position to conform to the incline of the sewing machine belt, a plurality of superposed operating pulleys carried by said body and provided with cord engaging integral hooks, and a plurality of superposed idler pulleys disposed alternate with said operating pulleys and serving to confine the sewing machine belt against said operating pulleys.

2. A rope making attachment for sewing machines including a bracket composed of a pair of longitudinal interfitting members, a clamp carried by one of said members adapted to secure said bracket in inclined position on the sewing machine table whereby to adapt the bracket to receive the inclined front side of the sewing machine belt and conform to the slope thereof, a plu-

55 rality of superposed operating pulleys carried by one of said members and provided with integral cord engaging hooks, and a plurality of superposed idler pulleys carried by the other member adapted to confine said belt against said operating pulleys. 60

3. A rope making attachment for sewing machines including a bracket composed of a pair of channel members adapted to be interlocked one with the other to produce a housing for the sewing machine belt, a clamp carried by one of said members for detachably securing said bracket to the sewing machine table in inclined position to receive and conform to the slope of the front side of the sewing machine belt, a plurality of operating pulleys carried between the side walls of one of said members, hooks carried by said pulleys, and a plurality of idler pulleys carried between the side walls of the other of said members and disposed alternate with said operating pulleys and adapted to confine said belt against said operating pulleys. 75

4. A rope making attachment for sewing machines including a bracket formed of a pair of channel members, the side walls of one member being provided with a plurality of slots formed at the inner ends with enlargements, a plurality of pulleys carried by the other of said members and having their pintles passed into said slots and seated in said enlargements whereby to removably lock said channel members together to produce a housing for the front side of the sewing machine belt, a clamp adapted to secure said bracket to the sewing machine table in inclined position whereby to adapt the bracket to receive and conform to the incline of the front side of the sewing machine belt, a plurality of operating pulleys carried by said slotted member and disposed alternate with respect to said idler pulleys, said idler pulleys serving to confine said belt against said operating pulleys, and cord engaging hooks carried by said operating pulleys. 90 95 100

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

MARY MAGDALENE LAMY.

Witnesses:

HELEN L. SACHS,
H. G. KEMPER.