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W. L. HANNSZ.
REGISTERING ATTACHMENT FOR SEWING MACHINES.
FILED FEB. 28, 1921.

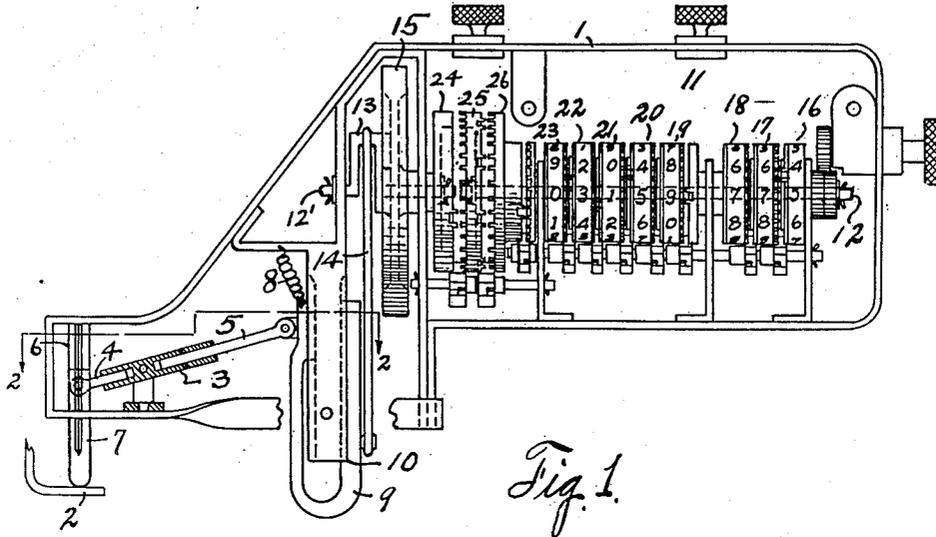


Fig. 1.

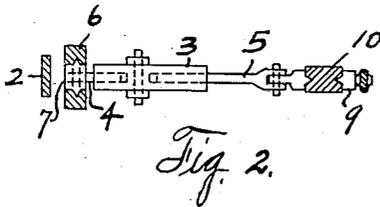


Fig. 2.



Fig. 4.



Fig. 3.



Fig. 6.

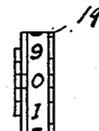


Fig. 5.



Fig. 7.

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REGISTERING ATTACHMENT FOR SEWING MACHINES.

Application filed February 28, 1921. Serial No. 448,593.

To all whom it may concern:

Be it known that I, WALTER L. HANNSZ, a citizen of the United States, residing at Houston, in the county of Harris and State of Texas, have invented certain new and useful Improvements in a Registering Attachment for Sewing Machines, of which the following is a specification.

This invention relates to new and useful improvements in a registering attachment for sewing machines.

One object of the invention is to provide an attachment of the character described designed to be attached to a sewing machine and which will register the hemstitching done by the machine.

Another object is to provide an attachment of this character which will register not only the total work done but also each separate piece or job.

With the above and other objects in view this invention has particular relation to certain novel features of construction, operation and arrangement of parts, an example of which is given in this specification and illustrated in the accompanying drawings, wherein:—

Figure 1 is a side view of the device.

Figure 2 is a fragmentary transverse sectional view, taken on the line 2—2 of Figure 1.

Figures 3 and 4 show plan and edge views, respectively, of a star wheel employed.

Figure 5 shows an edge view of a counting disc employed, and

Figures 6 and 7 show the respective side views of said disc.

Referring now more particularly to the drawings, the numeral 1 designates a frame designed to be attached in any suitable manner to a sewing machine. The numeral 2 designates a fragmentary part of the needle holder which reciprocates up and down as the machine operates. Pivottally mounted within the casing there is a rocker 3 whose respective ends have deep sockets forming bearings for the rods 4 and 5, said rocker and rods forming an extensible lever. The numeral 6 refers to a depending guide which is fastened to the frame 1 and in which the actuating bar 7 reciprocates. The lower end of the bar 7 rests on the needle holder 2 and is held in contact therewith by means of the pull spring 8, one end of which

is connected to the casing and the other end of which is attached to the yoke 9, hereinafter referred to.

Attached to and depending within the frame there is a track 10 on which the yoke 9 reciprocates. The outer ends of the rods 4 and 5 are pivoted to the bar 7 and the yoke 9, respectively, and the yoke is thereby reciprocated as the needle holder reciprocates up and down.

The numeral 11 designates a counting machine as a whole. The mechanism of this machine is similar, in principle, to the ordinary speedometer and it will not be described in detail. It is provided to register the number of yards of work done, both the total yardage and the yardage of each piece of work. It embodies a main shaft 12, and a drive shaft 12' which is aligned therewith and one end of which is formed with a wrist 13. Connected to this wrist, at one end, there is a connecting rod 14 whose other end is pivoted to the yoke 9. The shaft 12 also has the usual fly wheel 15 fixed thereon, for the well known purpose.

The counting discs of the machine 11 are mounted on the shaft 12 and are operated therefrom in the well known manner.

The counting discs 16, 17 and 18 register the yardage of each piece of work from one-tenth of a yard to one hundred yards and at any time may be set at zero in the usual and well known manner.

The discs from 19 to 23, inclusive, register the total measurement. Ordinary hemstitching runs thirty-two stitches to one-tenth of a yard and the shaft 12 is geared to the drive shaft through reduction gears 24, 25 and 26 to give the proper rate of rotation to the main shaft and the counting discs thereon.

What I claim is:—

1. The combination with a sewing machine having a reciprocable needle holder, of a registering mechanism including a frame adapted to be secured to the arm of the machine, a main shaft rotatably mounted in the frame, counting discs mounted on said shaft and operated therefrom, a guide carried by the frame, a bar reciprocable in the guide, and operated by the needle holder, a rocking lever, a reciprocating yoke mounted in the frame, said lever being pivoted at its respective ends to the bar and yoke, a drive shaft formed with a wrist, a connecting rod con-

necting said yoke to the drive shaft wrist, a gearing operatively connecting said shafts.

2. The combination with a sewing machine having a reciprocable needle holder, 5 of a registering mechanism including a frame adapted to be secured to the arm of the machine, a main shaft rotatably mounted in the frame, counting discs mounted on said shaft and operated therefrom, a guide carried by the frame, a bar reciprocable in the 10 guide, and operated by the needle holder, a rocking lever, a reciprocating yoke mounted in the frame, said lever being pivoted at its respective ends to the bar and yoke, a drive 15 shaft formed with a wrist, a gearing operatively connecting said shafts, said rocking lever being lengthwise adjustable.

3. The combination with a sewing machine having a reciprocable needle holder, of 20 a registering mechanism including a frame adapted to be secured to the arm of the machine, a main shaft rotatably mounted in the

frame, registering discs operatively connected therewith, and actuated therefrom, a guide carried by the frame, a bar reciprocable in the guide and operated by the needle holder, a reciprocating yoke carried by the 25 frame, a rocking lever mounted in the frame and pivoted at one end to said bar and at the other end to said yoke, a pull spring connected at one end to the frame and at the 30 other end to the yoke and operating to hold said bar in contact with said needle holder, a drive shaft formed with a wrist, a connecting rod connecting said yoke with said 35 wrist and gearing operatively connecting said shafts.

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

WALTER L. HANNSZ.

Witnesses:

E. V. HARDWAY,
W. H. DUNLAY.