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# SINGER

## SEWING MACHINES

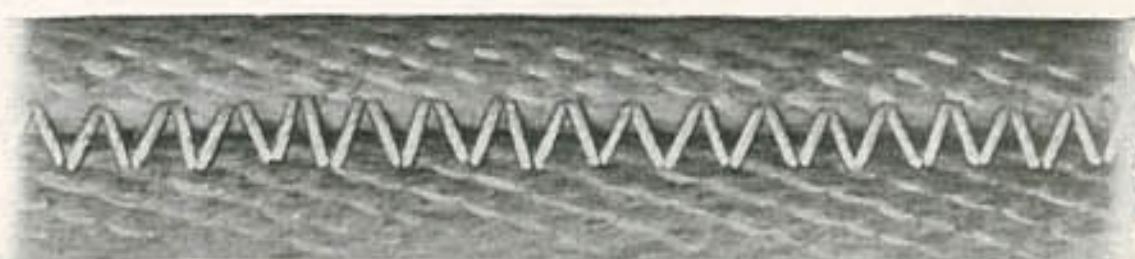
FOR

## ROPE STITCHING



"Eye Seizing" and  
"Seizing" of Rope End  
(Full Size)

Done on Machine No. 17w15



Ropes joined by Machine No. 47 k 5  
("Flat Seizing")  
(Full Size)

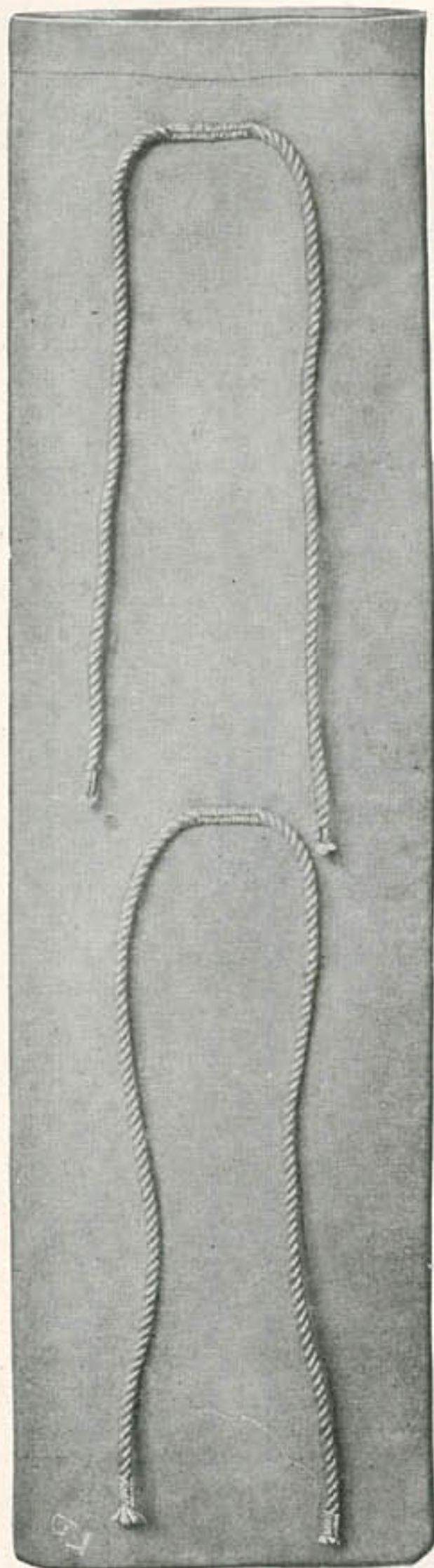
Singer Sewing Machines are used for several operations in the tacking and stitching of ropes.

By using special Singer Machines for the rope work in wagon covers, tents, balloons, sails, hammocks and miscellaneous military and naval equipments, manufacturers are able to effect far reaching economies.

The sewing machine work on ropes is accomplished in a fraction of the time required for hand work and the machine work is much more durable.



## SMALL AND MEDIUM SIZE ROPES



Grain Ration Bag  
(One-Fourth Size)  
Ropes Attached and Rope Ends  
Bound ("Seized") by Machine  
No. 17 w 15

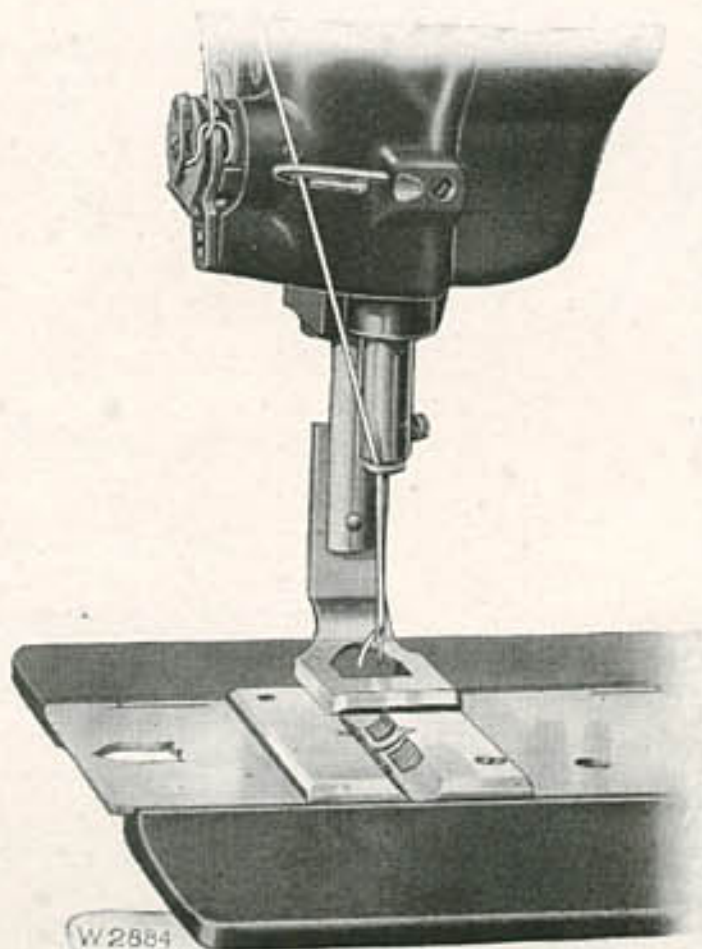
For rope-end tacking ("seizing") and making of loops ("eye seizing") at the ends of small and medium size ropes, *Machines Nos. 17 w 14 and 17 w 15* are recommended.

Each of these machines has a vibrating needle and rotary sewing hook and makes lock stitches up to a speed of 1000 per minute.

The sideway throw of the needle of Machine No. 17 w 14 is adjustable up to  $\frac{1}{4}$  inch; and of Machine No. 17 w 15 up to  $\frac{3}{8}$  inch.

The work accomplished on these machines is much stronger than hand work for the reason that every stitch made by the machine is locked in the thickness of the rope.

Samples of rope should be sent with orders for the machine.



Machine No. 17 w 14  
Showing Grooved Feed Dog  
and Throat Plate  
The same Parts are used on  
Machine No. 17 w 15



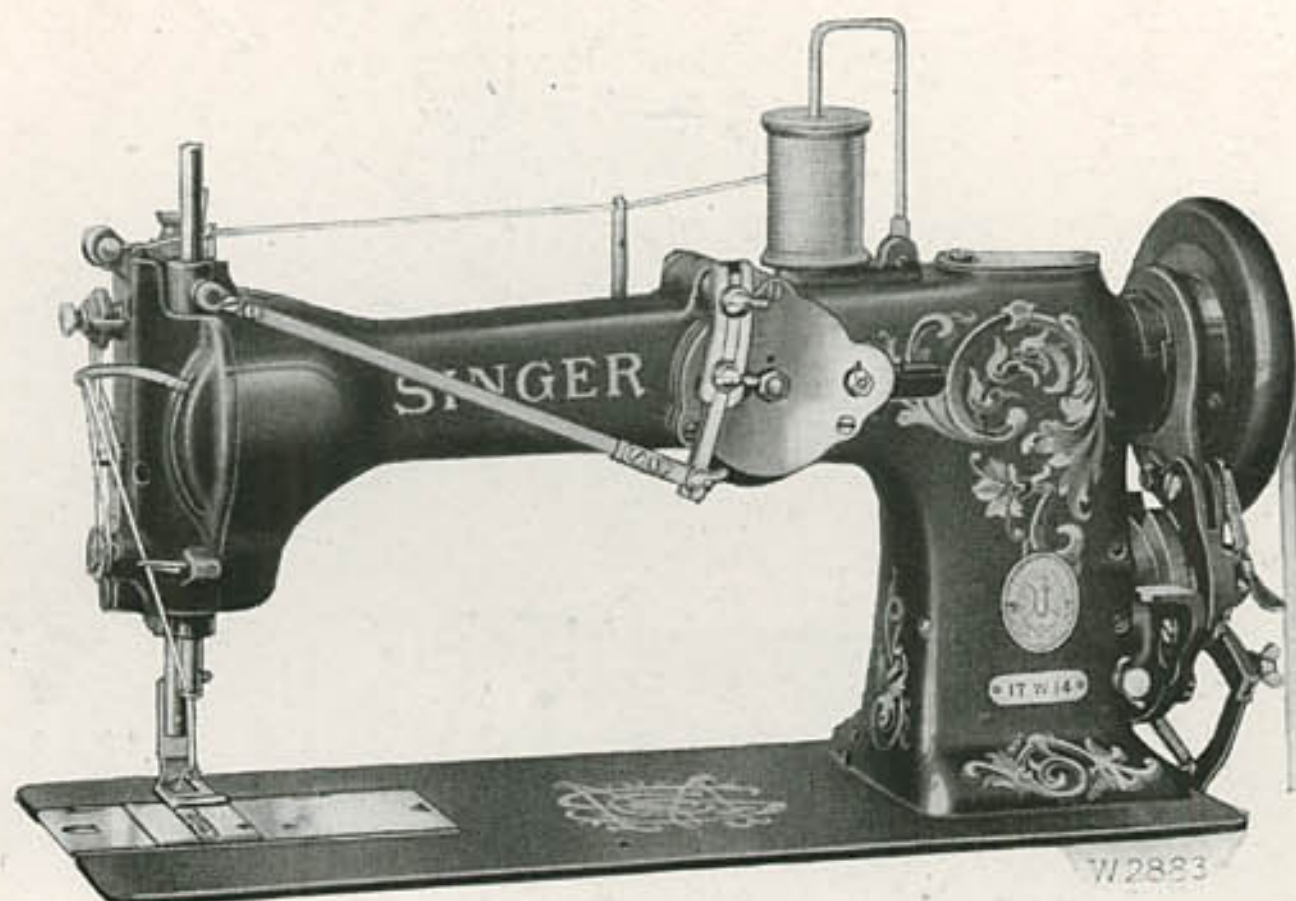
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*For Rope Stitching*

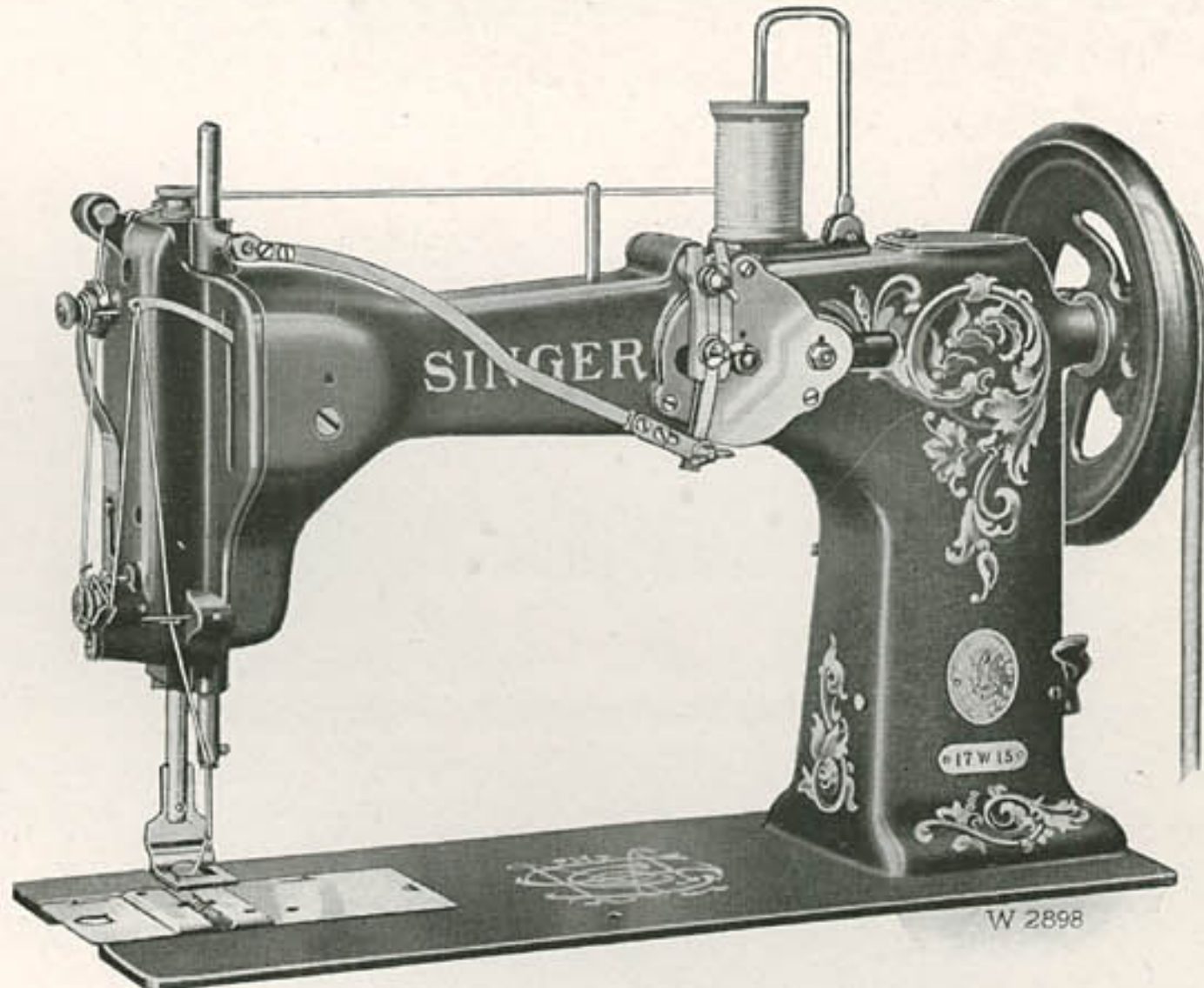
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Machine No. 17 w 14

Machine No. 17 w 14 is used for ropes from  $\frac{1}{8}$  to  $\frac{1}{4}$  inch in diameter. The bed is  $17\frac{3}{4}$  inches long and there is a clear space of  $10\frac{7}{8}$  inches at the right of the needle. The space between the underside of the arm, midway, and the bed is  $5\frac{3}{4}$  inches.

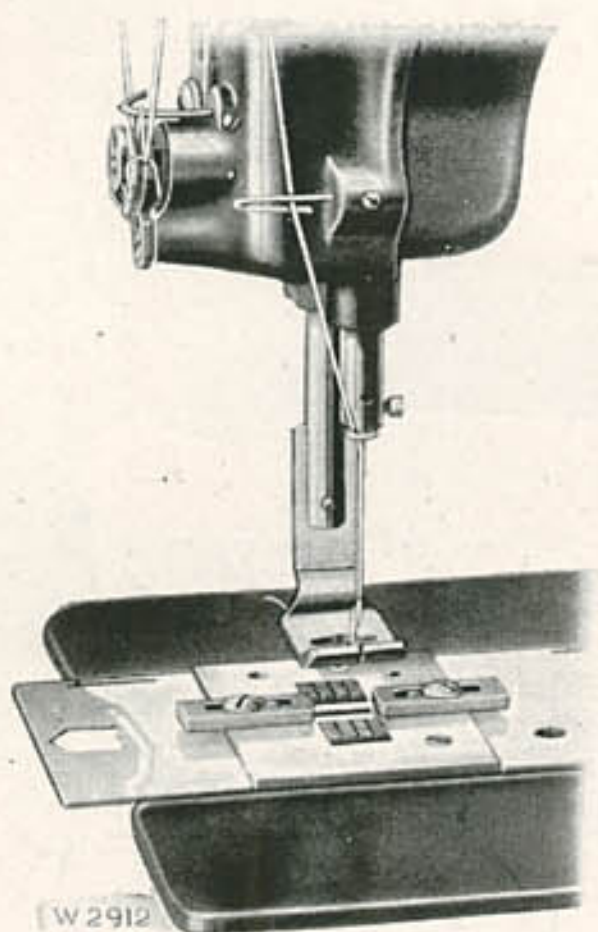
It is fitted with a counting stop motion by means of which the machine is automatically stopped after making a specified number of stitches in each tack. Orders for the machine should state the length of tack desired.



Machine No. 17 w 15

Machine No. 17 w 15 is used for ropes from  $\frac{1}{8}$  to  $\frac{3}{8}$  inch in diameter. The bed is  $17\frac{3}{4}$  inches long and there is a clear space of  $10\frac{7}{8}$  inches at the right of the needle. The space between the underside of the arm, midway, and the bed is  $7\frac{1}{4}$  inches. It is not fitted with a stop motion; the tack is made as long as desired.





Machine No. 17 w 15 fitted for  
Making a Loop at the End of a Rope  
("Eye Seizing")

To make a loop at the end of rope ("eye seizing"), as shown by the illustration on the first page, the following parts should be substituted for the regular parts fitted to the machine.

Throat Plate Complete,	No. 234655.
Feed Dog, - - -	No. 234651.
Presser Foot, - - -	No. 234652.

The same parts can also be fitted to Machine No. 17 w 14. These parts are furnished on order, an extra charge being made.



Sample of Rope Tacking ("Seizing") Full Size  
Made on Machine No. 17 w 14



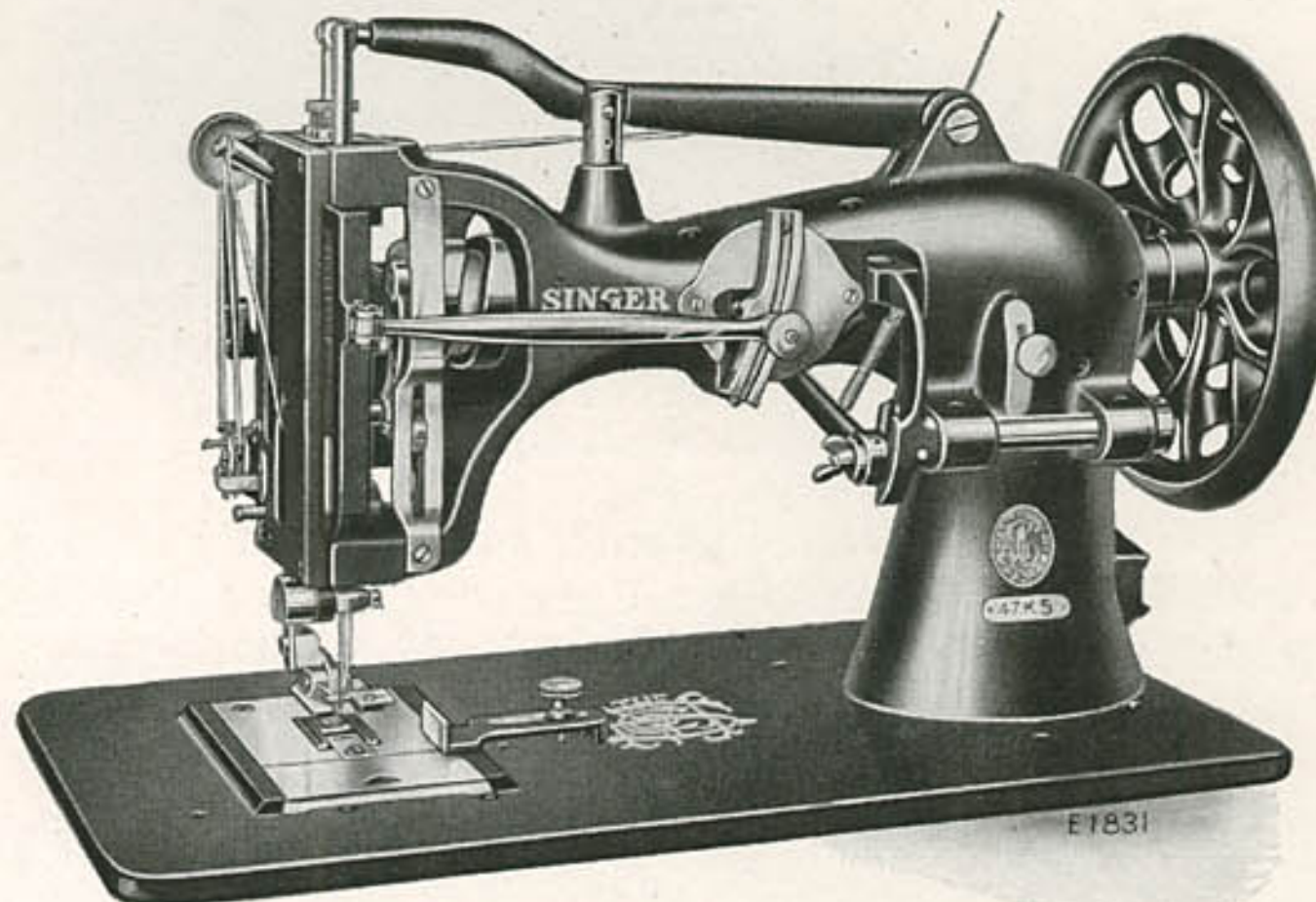
Sample of Rope Tacking ("Seizing") Full Size  
Made on Machine No. 17 w 15



## MEDIUM SIZE ROPES

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For work on the medium size ropes, Machine No. 47 K 5, illustrated below, is recommended.



Machine No. 47 K 5

Machine No. 47 K 5 has one needle and one shuttle and makes the zig-zag lock stitch. It is strongly built and will satisfactorily handle ropes up to  $\frac{3}{8}$  inch in diameter, whether the ropes are loosely or closely woven.

The illustration on the first page, of two ropes joined parallel ("flat seizing"), shows one of the styles of rope work accomplished on the machine. It is also used for "end seizing," "eye seizing," attaching flags to halyards, and for other work.

The bed of the machine is  $20\frac{1}{2}$  inches long and there is a clear space of 10 inches from needle to base of arm. The machine can be operated up to a speed of 400 stitches per minute.

As required, the machine will make a zig-zag or straightaway stitch the extreme sideways throw of the needle being  $\frac{9}{32}$  inch, and the length of straightaway stitch can be adjusted up to  $\frac{3}{8}$  inch.

The machine has top and bottom feed, consisting of a feeding foot and drop feed, either of which can be independently adjusted to suit the requirements of the work.

Samples of rope should be sent with orders for the machine.



## MEDIUM AND HEAVY ROPES

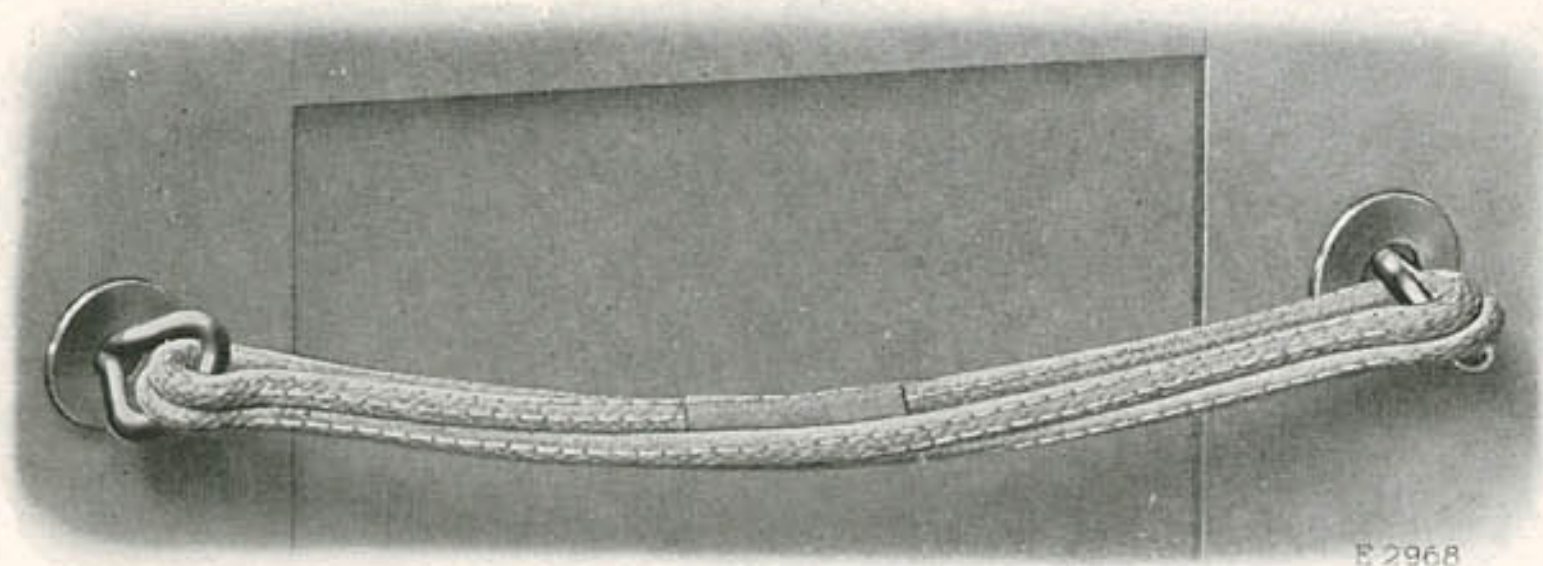
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The Class 97 Machine has one needle and one shuttle and makes a straightaway lock stitch. It will handle rope from the smallest size up to 1 inch in diameter.



Portion of Rope Handle of Bucket. (Full Size)  
Stitching done on Machine No. 97

Rope handles of buckets, as illustrated above, for ship or camp use, or fire bucket handles, are stitched on the Class 97 machine. By stitching rope lengthwise, the strands cannot ravel and the rope is strengthened.



Rope Handle for Heavy Case for Military Equipment in the Field  
(Half Size)

Rope handles similar to the above illustration can be made up for heavy cases containing military equipment for use in the Field. This handle is made from one length of  $\frac{3}{8}$  inch rope, the machine stitching the rope in two layers up to the eye bolts. The canvas covering the two ends of rope is simultaneously stitched on by the machine.

This machine has an absolutely positive needle feed.

Stitches varying in length up to  $\frac{1}{4}$  inch can be readily made as desired, and when driven by mechanical power, the machine can be operated up to a speed of 350 stitches per minute.

Hot wax thread or dry thread can be used as desired.

Samples of rope should be sent with orders for the machine.



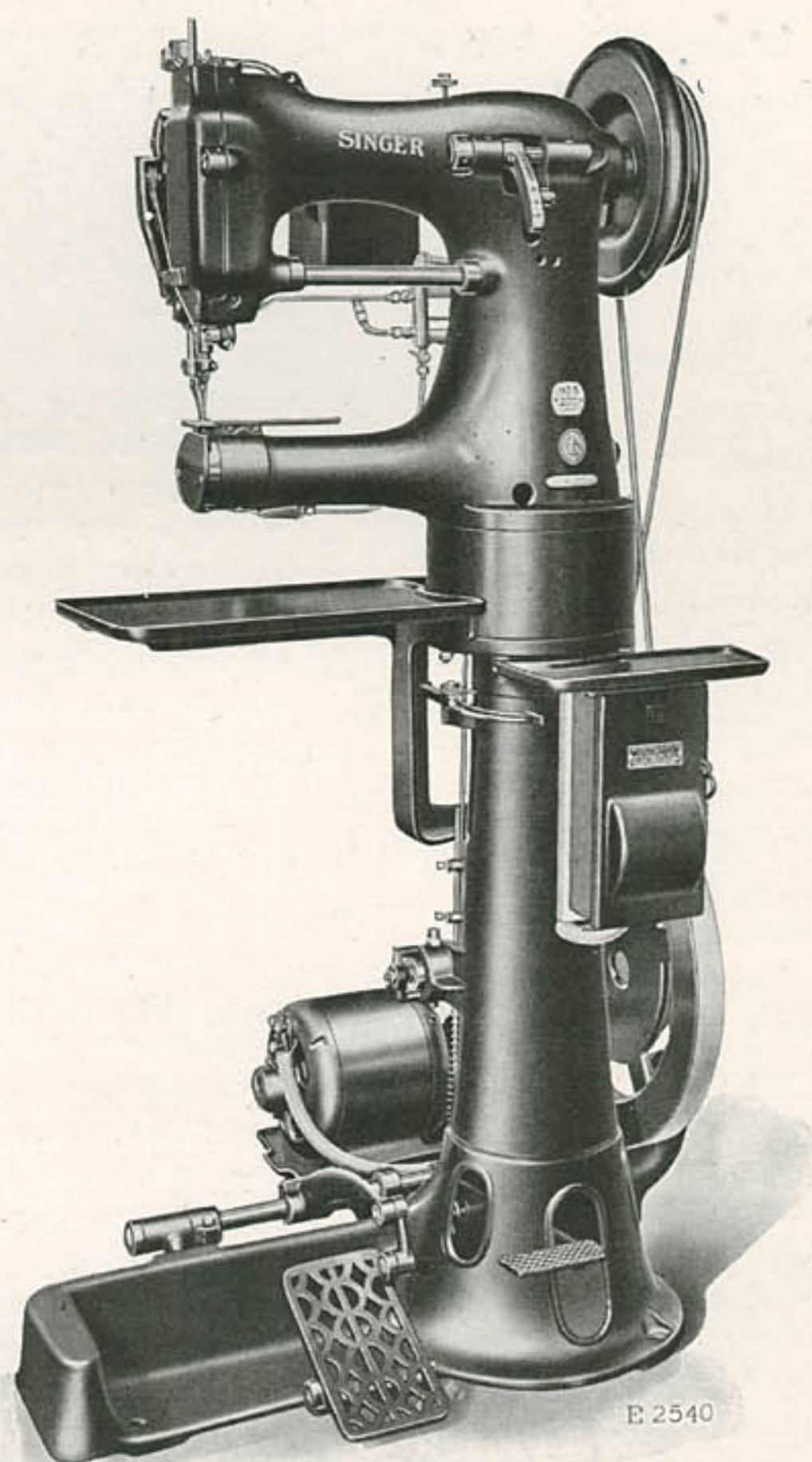


Illustration of Machine No. 97-5 equipped with  
Singer Alternating Current Motor

The following list shows the individual machines of Class 97:

- No. 97-1 Machine Head only.
- " 97-2 Machine with stand, for foot power.
- " 97-3 Machine with stand, shaft and pulleys, for mechanical power.
- " 97-4 Machine with stand and  $\frac{1}{2}$  horse power direct current motor.
- " 97-5 Machine with stand and  $\frac{1}{2}$  horse power alternating current motor.

Machine No. 97-2, which is equipped for foot power, is easy to operate on account of the ingenious arrangement of the foot pedals.

When ordering Machine No. 97-4, which includes a direct current motor, the voltage should be specified.

When ordering Machine No. 97-5, which includes an alternating current motor, the voltage should also be given and in addition the phase and number of cycles.



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