WEST TRUE BUILD

SINGER PORTABLE.

INSTRUCTIONS

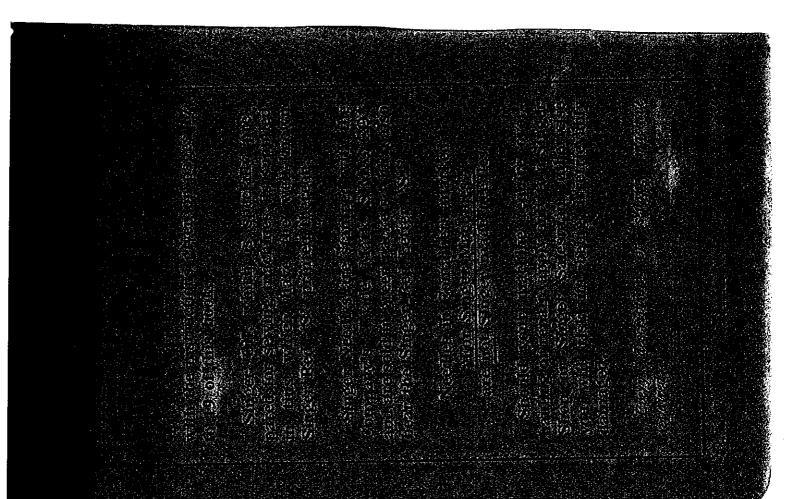
FOR USING

SINGER* SEWING MACHINE No. 221K

To all whom it may concern:

The improper placing or renewal of the trade-mark "SINGER" or any other of the trade-marks of The Singer Manufacturing Company (all of which are duly Registered Trade-marks) on any machine that has been repaired, rebuilt, reconditioned or altered in any way whatsoever outside a Singer factory or an authorised Singer agency is forbidden.

* A Trade Mark of THE SINGER MANUFACTURING CO.



SINGER SERVICE

Singer Sewing Machine we do not want you to feel that your relations with us have come to Now that you have purchased your new an end The following instructions are worded so one, and we would suggest that you study them carefully in order that you may obtain the fullest use and pleasure from your sewing machine. If, however, you require further assistance we would ask you to call at the local Singer Shop where advice will always be willingly given in the use of any that they may be easily understood by every-Singer Machine and its Attachments.

Shop your headquarters for sewing supplies and service. Only there, or through Singer authorised representatives, can you secure of which are so important in obtaining the We hope, too, that you will make the Singer genuine Singer oil, cotton, needles, etc.-all best results from your sewing machine.

To Pack Up the Outfit



Fig. 1. Carrying Case

When placing the machine in its case, have the that the base of the machine is at the right of the balance wheel at the right hand side of case and see cleat at the bottom of the case.

Electrical Connections

Unwind the long electric cord supplied with the Push the socket plug at one end of the electric cord as far as it will go on to the three-pin in Fig. 8. Attach the plug at the other end of the cord to the nearest electric point. terminal block at the right of the machine, as shown machine.

Place the foot controller in a convenient position on the floor and the machine is ready for operation.

Singerlight

Turn the Singerlight "on" or "off" by means of the switch A, Fig. 2.

To Remove and Replace the Bulb

Do not attempt to unscrew the bulb. It is of the bayonet and socket type and does not unscrew.

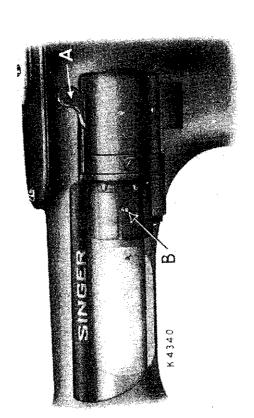


Fig. 2.

To Remove the Bulb. Press the bulb into the socket at the same time turning it over towards the machine as far as it will go; then withdraw the bulb.

To Insert a New Bulb. Press the bulb into the Singerlight socket and turn it over from the machine until the bulb pin B, Fig. 2, enters the notch in the socket, as shown.

Caution

When you have finished your sewing, always disconnect the plug from the electric point.

To Operate the Machine

Raise the presser foot (B) by means of the presser bar lifter (C) to prevent injury to the foot and the feed (A).

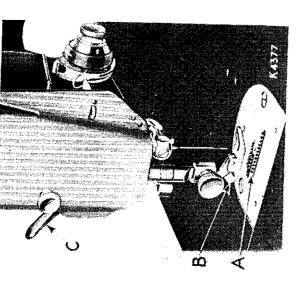


Fig. 3.

Place a piece of material under the presser foot and lower the latter upon it.

Turn on the electric current, place the right foot on the rest at the right of the foot controller and turn the foot inwards to depress the pedal. This will set the machine in motion, the speed being perfectly controlled by the amount of pressure which should be gradually applied. Operate the machine in this way, without its being threaded, until accustomed to guiding the material and operating the foot controller.

Balance Wheel Stop Motion



Fig. 4

This device allows the balance wheel to run free, so that bobbins may be wound without operating mechanism. To loosen the wheel, hold it with the left hand, and with the stop motion screw over towards you, as shown in Fig. 4.

To Ensure Perfect Action of the Machine

Do not work the machine with the presser foot lowered or with the needle threaded, except when sewing.

Do not try to help the machine by pulling the fabric, lest you bend the needle. The machine feeds the work without assistance.

To Remove the Bobbin Case and Bobbin (See Fig. 5).

Turn the balance wheel towards you until the take-up lever (6, Fig. 14) is at its highest point. Raise the bed extension (B) as far as it will go, and with the thumb and forefinger of the left hand, open the latch (A) and withdraw the bobbin case.

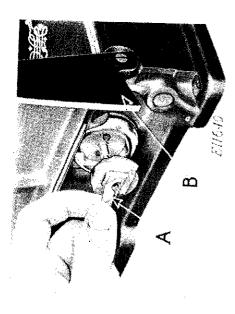
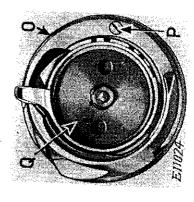


Fig. 5.

While the latch is held open, the bobbin is retained in its case. On releasing the latch and turning the case downward, the bobbin will drop out.

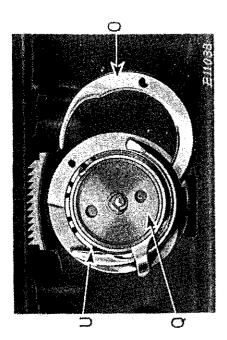
To Remove and Replace Bobbin Case Base (See Figs. 6 and 7)

Remove throat plate and take out screw (P) so that the gib (O) can be displaced as shown in Fig. 7. Turn the bobbin case base so that the small point (U) on the base is beneath the point of the sewing hook, as shown in Fig. 7 and take out the bobbin case base (Q). To replace the base, reverse the operation.



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To Wind the Bobbin (See Fig. 8).

controller, pull the bobbin winder pulley away from and, from the inside, through one of the holes in the apply pressure to the foot controller to operate the bobbin winder. The end of the thread must be held until a few coils are wound and should then be upon the bobbin, release pressure on the foot on the spool pin (1), and lead the thread into the guide (2), under and between the tension discs (3), eft side of the bobbin (4). Press down the bobbin winder pulley against the belt, and then gradually. broken off. When sufficient thread has been wound Loosen the balance wheel (see Fig. 4). Place an empty bobbin on the bobbin winder spindle and push it on as far as it will go. Place a reel of thread the belt and remove the bobbin from the spindle.

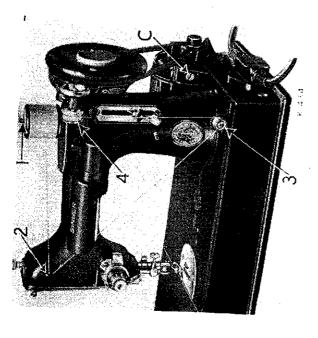


Fig. 8

If the thread does not wind evenly on the bobbin, in position on the bed of the machine and slide the loosen the screw which holds the tension bracket (3) bracket to the right or left, as may be required. Then tighten the screw.

To Thread the Bobbin Case

Hold the bobbin between the thumb and forefinger of the right hand with the thread leading from shown in Fig. 9. right to left,

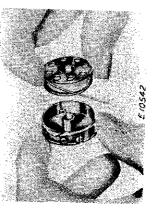


Fig. 9.

With the left hand hold the bobbin case as shown in Fig. 9, the slot in the place the bobbin into the edge being at the top, and obbin case.



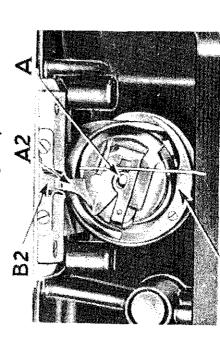
Fig. 10.

spring into the slot at the end of the tension spring Then pull the thread into the slot as shown in Fig. 10, and back under the tension as shown in Fig. 11.



Fig. 11

(See Fig. 12)



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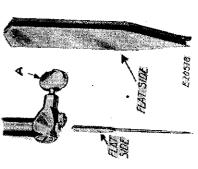
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Place the bobbin case on the centre stud (A) of the After threading the bobbin case hold its latch between the thumb and forefinger of the left hand. bobbin case base with the thread drawing from the press the bobbin case back until the latch catches the groove near the end of the stud. Allow about Release the latch and three inches of thread to hang free, and turn down top of the bobbin case. the bed extension.

cleaning the stitch-forming mechanism, etc., make certain when replacing the throat plate ${
m that}\ {
m the}$ Caution. If the throat plate is removed for position finger (A2) enters the notch (B2) of the position plate attached to the underside of the throat plate.

To Set the Needle (See Fig. 13).

Turn the balance wheel over towards you until est position, and loosen the the needle bar is at its highthumb screw (A) in the Insert the needle into the needle clamp, to the left of the thread guide, as far as it will go, with the flat side of its shank to the left, as shown in the illustration. Then tighten the thumb needle clamp.



Positioning Needle in Needle Clamp. Fig. 13.

screw.

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Upper Threading (See Fig. 14).

into the guide (7), into back of the thread guide through the hole in the take-up lever (6), down into the hand and with the left 5) and from right to left the thread take-up lever oint. Place a reel of hread on the spool pin at the top of the machine, and lead the thread into under and from right to oft between the tension discs (2). Hold the reel lightly with the right hand pull the thread up under the take-up spring (4) until it enters the re-Then pass the thread up and over towards you until (6) is raised to its highest Furn the balance wheel the thread guide (1), down, taining fork (3). the guide (8),

guide (9), and from **right** to left through the eye of he needle (10), leaving about three inches of thread

Fig. 14.

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with which to commence sewing.

necessary that the needle should be of the rough or uneven thread is used, or if it passes with difficulty through the eye of the needle, size stated for the number of cotton, linen or absolutely silk, as shown on inside of back cover. If the machine will not function satisfactorily. obtain best results it is $\mathbf{T}_{\mathbf{0}}$

The Singer Needle Threader saves time, trouble and patience and is invaluable to those having defective sight.

To Prepare for Sewing

With the left hand hold the end of the thread, leaving it slack from the hand to the needle.

thebalancewheel

until the needle over toward you

up again to its

moves down and

thus catching the

bobbin thread.

Draw up the needle thread

and the bobbin

highest point,



Fig. 15. Drawing Up Pobbin Thread

backup with it through the hole in the throat plate, thread will come under the presser foot diagonally across the feed, Lay both threads as shown in Fig. 15.

the right or left, dependas shown in Fig. 15A, to ing upon which side of the needle the material is to be located, so that when the presser foot is lowered, the threads will be firmly held between the feed and the presser foot.

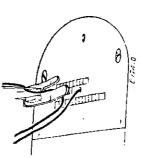


Fig. 15A. Threads in Position to Commence

To Commence Sewing

foot, Place the material beneath the presser lower the presser foot and commence to sew.

to turn the balance wheel over toward you to start the machine. This should also be done if the machine When sewing thick material, it may be necessary stops when sewing across thick seams.

To Remove the Work

By noting the particular number opposite the indi-

satisfactory tension

cutter (A, Fig. 15). Leave the ends of the threads a few inches long under and at the back of the (6, Fig. 14) at its highest point and raise the presser sever the threads by passing them over the thread Stop the machine with the thread take-up lever Draw the material back and to the left and presser foot.

To Regulate the Tensions

(See Fig. 16)



Correct Stitch

and under threads should be equal, so as to lock For ordinary stitching, the tension on the upper both threads in the centre of the work, as above. If either tension is stronger than the other, imperfect stitching will be the result, thus :-



too strong.



Needle thread tension

Fine fabrics require a light tension, while heavy materials want more tension to obtain a perfect stitch. The tension on the needle thread can be regulated A correct stitch can usually be obtained by varying the tension on the needle thread. only when the presser foot is down.

tension index flange (D) is marked with numbers 0 to 9 indicating the different degrees of tension that can be produced. The numbers do not denote a Lower the presser foot and then turn the thumb nut (B) for more or less tension. The particular size of thread.

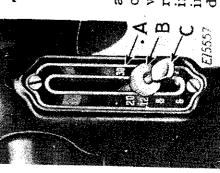
work being stitched, this cator line, when set for a number can be readily reverted to when changing numbers less tension. The tension indicator. (G) is from one class of material to another. The higher numbers denote increased tension, and the lower

marked with the signs +

direction to turn the thumb nut (B) for more or and — which indicate the

ing the factory, the under tension seldom requires to be altered, but if this becomes necessary tighten the As all machines are correctly adjusted before leavscrew (A, Fig. 10) which is nearest the centre of the tension spring on the outside of the bobbin case for ess tension.

more tension, or loosen the screw slightly for less. Always use thread with corresponding size of needle as per Table on page 3 of cover.



To Regulate the Length and (See Fig. 17) of of Stitch Direction

away from the stitch indicator plate (A) as far as it will go, then move the stitch regulator lever (C) until it is in line with the figure denoting the number of stitches desired per inch, and screw Screw the thumb nut (B) the thumb nut (B) inward until it touches the stitch

Fig. 17.

ndicator plate. Thus set, the machine will make the If it is desired to reverse the direction of the stitching, raise lever (G) as far as possible and the machine ndicated number of stitches in a forward direction. will make the same number of stitches in a backward direction.

Basting

Loosen the tension on the needle thread and set No. 6. The stitches may then be easily pulled from the stitch regulator to make the longest stitchthe material. Machine basting is firmer, more even, and much more quickly done than by hand.

To Change the Pressure on Material

giving the thumb screw (C, Fig. 19) two or three To increase the pressure, give the to change the pressure on the material. If sewing fine silk or flimsy material, lighten the pressure by For ordinary family sewing it is seldom necessary thumb screw a few turns downwards. turns upwards.

To Turn a Corner

Stop the machine when the needle is rising, but Raise the presser foot and turn the work, using the needle as a pivot. still in the material. lower the presser foot.

To Sew Flannel or Bias Seams

on the needle thread, so that the stitching will be Use a short stitch and as light a tension as possible loose enough to allow the material to stretch.

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To Oil the Machine

To ensure easy running the machine requires to be oiled so that all moving parts in contact are

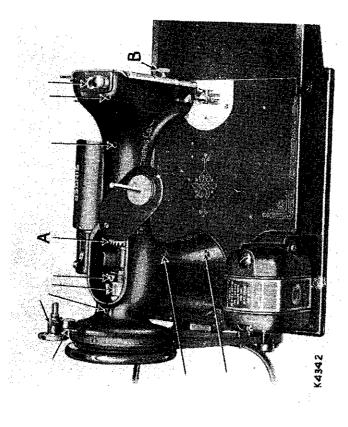


Fig. 18.

These should never be allowed to become dry. covered with a film of oil.

If used constantly, the machine should be oiled daily, while with moderate use, an occasional oiling Figs. 18, 19, and 20. Oil holes are provided in the A drop of oil should be applied at each of the points indicated by the unlettered arrows in machine for bearings which cannot be directly When oiling insert the oil can spout well nto the oil holes. is sufficient. reached.

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Turn back the cover at the top of the machine in Fig. 18, and occasionally apply a small quantity and oil the moving parts inside the arm as indicated of Singer Motor Lubricant to the teeth of the gear (A) then replace the cover.

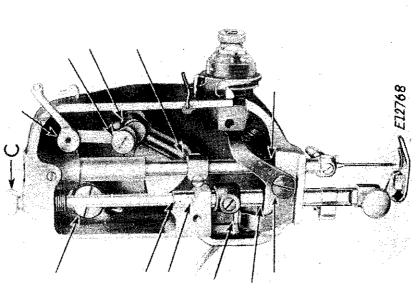


Fig. 19.

holes and joints indicated in Fig. 19, then replace the Take out the thumb screw (B, Fig. 18) and remove Put one drop of oil into each of the face plate and thumb screw. the face plate.

Occasionally apply a drop of oil at the hook bearing at B in Fig. 12.

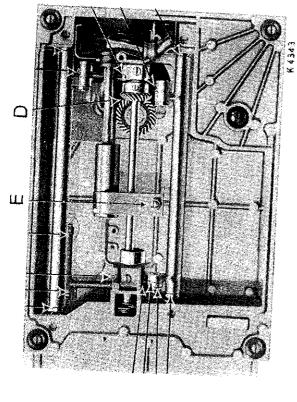


Fig. 20.

To reach the parts underneath the bed turn the machine over on its rear side. Remove the thumb nut and felt washer from the screw (E, Fig. 20) and take off the cover plate. Apply oil at the holes and apply a small quantity of Singer Motor Lubricant bearings indicated in Fig. 20, and occasionally . Replace the bed cover plate, washer and thumb nut, being careful not to fasten the latter too tightly. to the teeth of the gears (D

To Lubricate the Motor

USE ONLY SINGER LUBRICANT FOR this lubricant is sent with the machine. LUBRICATING THE MOTOR.

affected by varying temperatures. It is the only lubricant which will positively lubricate or ordinary grease, must not be used for lubricating the motor as they are harmful prepared non-flowing compound which is not Singer Electric Motor Lubricant is a specially the motor. Other lubricants, including oil for this purpose.

sufficient lubricant for approximately six months' When the machine is despatched from the factory the two motor grease cups (A, Fig. 21) are filled with use, under ordinary circumstances.

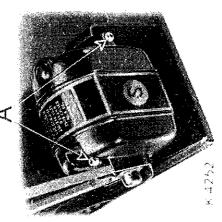


Fig. 21.

Motor Lubricant. To do this, insert the tip of the lubricant tube into the hole of each of the grease tubes and force the lubricant through until both At least once every six months thereafter, these grease tubes should be refilled with Singer Electric grease tubes are filled.

HINTS

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is incorrect, loosen the screw (Ĉ, Fig. 8) about one turn to allow the motor to drop downward. Now enough to keep the belt from slipping. If the tension The Belt. The belt tension should be only retighten the screw and the belt will be found to have the correct tension.

Machine working heavily. If the machine run rapidly, wipe clean and oil with Singer Oil. runs hard after being idle, oil with paraffin.

Needles Breaking. See that the needle is not bent, the upper tension is not too tight, and the Avoid pulling the material and do not sew heavy seams or thick goods with too fine a needle (see presser foot or attachments are securely fastened. table on inside of back cover).

This may be Breaking of Needle Thread. caused by :-

Improper threading.

Tension being too tight.

Needle being bent, having a blunt point, or being Thread being too coarse for size of needle.

set incorrectly.

breaking. The eye in Singer Needles is specially finished to prevent cutting of thread, while the best Inferior needles and thread are often the causes of thread resists strain and is free from knots. Shops sell the best machine sewing thread.

This may be Breaking of Bobbin Thread. caused by:-

Improper threading of bobbin case, Tension being too tight.

The needle may not be accurately set into the needle bar. It may be blunt or bent, or too small for the thread in use. Skipping of Stitches.

INSTRUCTIONS

FOR USING

ATTACHMENTS

WHICH MAY BE USED WITH

SINGER* MACHINE No. 221K

NOTE.—Before applying any of these attachments raise the needle and remove the presser foot.

After substituting the attachment turn the balance wheel slowly over towards you to make sure that the needle passes through the centre of the needle hole.

Darning by sewing machine is infinitely neater, stronger, and more quickly done than by hand.

A tiresome task becomes a pleasure!

Read the instruction on pages 48 and 49 of this book on how to do Darning and Embroidery.

The Binder-Binding

Pass the binding through the scroll of the binder and draw it under the needle. Place the edge of the material to be bound between the scroll of the

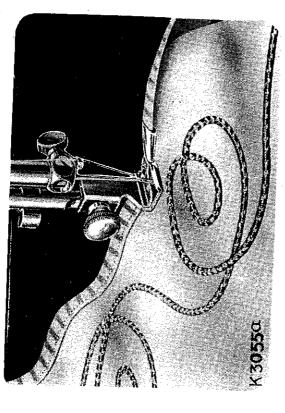


Fig. 22.

binder and under the needle, lower the presser-bar lifter and sew as usual.

Bias binding should be cut 18 of an inch wide.

using bias binding; but as dress braid and binding purchased already folded are narrower than bias binding they should be inserted in the outer slot of the binder. The edges of dress braid are not turned under as in the case of bias binding.

To make French Folds.—Proceed as directed for binding, but pass the cloth beneath the binderfoot, so that the fold is stitched on to the face of the material instead of on the edge.

The Adjustment and Operation of the Binder

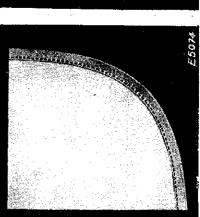
The edge to be bound should be held well within the centre slot of the scroll, and with a little practice this is quite easy. If the material is allowed to slip away from the scroll when near the needle, the edge will not be caught in the binding.

Various materials and conditions require different adjustments of the Binder to bring the stitching close to the edge. A wider adjustment of the Binder is necessary when binding curves than when binding a straight edge.

To adjust the Binder, loosen its small screw and move the scroll to the right for a narrower adjustment, or to the left for a wider adjustment, after which securely tighten the screw. To become perfectly familiar with the adjustment of the Binder, a little practice is necessary.

Binding Outside Curves

Practice is required to bind a curved edge properly. The edge to be bound must be allowed to pass freely



Sample of Outside Curve.

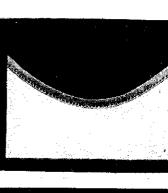


Fig. 24. Sample of Inside Curve.

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through the scroll and should not be crowded in or against it. Guiding should be from the back of the binder and to the left, allowing unfinished edges to swing naturally into the scroll of the binder.

Never pull the binding as it feeds through the Binder, as bias material is very easily stretched and would be too narrow when it reaches the needle. If this occurs the edges will not be turned.

When binding a curved edge, turn the material only as fast as the machine sews. It is not possible to hold the material in the entire length of the scroll when binding a small curve.

Do not push the material in too fast, as the edge will then become puckered, and do not stretch the material or the curve will not be the proper shape when finished. If the stitching does not catch the edge of the binding the scroll should be adjusted a little to the left.

Binding Inside Curves

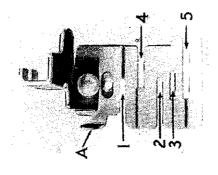
This curve is found on nearly all garments which are finished with a bound edge, but practice is necessary on various materials.

When binding an inside curve, straighten out the edge as it is being fed into the Binder. When doing this, take care not to stretch the edge of the material.

If the material is soft, like batiste or crepe de chine, add a row of machine stitching close to the edge of the curve before binding.

The Edge-Stitcher

A Combined Edge-Stitching, Lace-Joining and Piping Attachment



This attachment is an indispensable aid whenever stitching must be kept accurately on the extreme edge of the material. The slots numbered 1 to 5 in Fig. 25 serve as guides for sewing together laces, insertions and embroideries, sewing in position hemmed or folded edges, piping or sewing flat braid to a garment.

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The distance of the line of stitching from the edge of the material in the slots can be regulated by pushing the lug (A) to the right or left. If it moves hard, put a drop of oil under the blue spring, then wipe it dry.

Sewing Lace Together with the Edge-Stitcher

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It is difficult to sew two lace edges together even after basting, but the edge-stitcher makes it possible

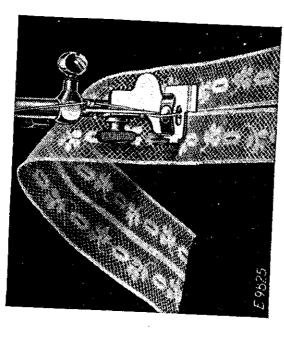


Fig. 26. Sewing Lace Together.

to stitch on the very edge. Place one edge in slot 1 and the other in slot 4, and adjust lug (A) until both edges are caught by the stitching. Hold the two pieces slightly overlapped to keep them against the ends of the slots. The thread tensions should be loose to avoid puckering of fine lace.

Lace and ribbon or other insertions can be set in by using the same slots (1 and 4). The material

may be folded over before placing it in the slot so that a double thickness is stitched and will not

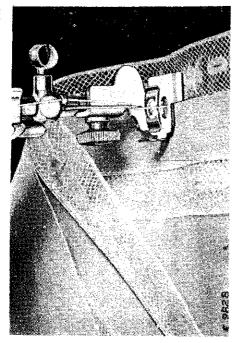


FIG. 27. SETTING IN LACE INSERTION.

pull out. The surplus material is trimmed away close to the stitching as shown in Fig. 27.

Piping with the Edge-Stitcher

colour is chosen for the piping material. Place the Piping is very attractive if the correct contrasting Place the edge to be piped in slot 4, as shown in piping, with its finished edge to the left, in slot 3.

be cut to twice the width of the slot (3) in the Piping should preferably be cut bias, and should edge-stitcher so that it can be folded once,

Applying Bias Folds with the Edge-Stitcher

the garment under the edge-stitcher, the same as To make a square corner, sew until the turn-Folded bias tape or military braid, used for neat and colourful trimming, may be sewn on by placing ing point is reached, then remove the tape from under a presser foot, and placing the tape in slot 1 or 4.

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replace it in the slot and continue stitching, as the attachment and form the corner by hand,

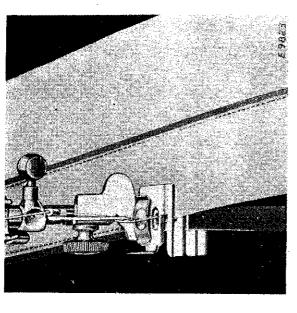
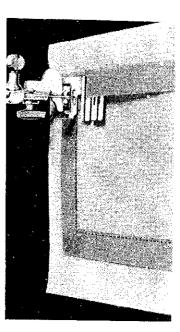


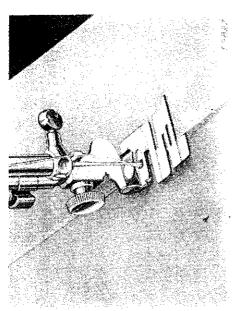
Fig. 28. Piping with the Edge-Stitcher

shown in Fig. 29. To space two or more parallel rows, a guide line such as a crease, chalk mark or basting thread should be used.



APPLYING BIAS FOLDS WITH THE EDGE-STITCHER. Fig. 29.

Stitching a Wide Hem with the Edge-Stitcher A wide hem on sheets, pillow slips, etc., may be stitched evenly with the edge-stitcher after the hem



MAKING A WIDE HEM. Fig. 30.

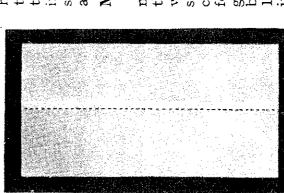


FIG. 31. A FRENCH SFAM.

the edge turned. Insert n Fig. 30 and adjust to stitch as close to the edge has been measured and the edge in slot 5 as shown as desired.

Making a French Seam

gether and inserting the wrong sides together, in slot 1 or 2 and stitching back of the seam into slot ust enough margin to An even French seam may be made by inserting close to the edge; then olding both right sides toagain and stitching with raw edges. the two edges to be joined conceal the See Fig. 31.

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Tucking with the Edge-Stitcher

shown in Fig. 32, and adjusting the edge-stitcher to Dainty narrow tucking may be produced on the edge-stitcher by inserting creased folds in slot 1 as

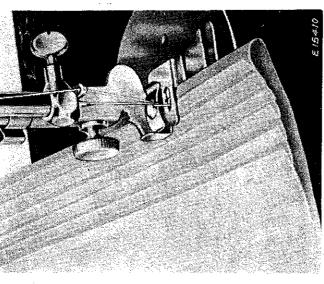


Fig. 32. Tucking with the Edge-Stitcher.

the fold over a straight edge such as the edge of the sewing machine cabinet. The secret of good tucking inch. Successive tucks may be easily creased by folding the material at the desired distance from right or left for the desired width of tuck, up to \$ the previous tuck, and then running the length of lies in a light tension, short stitch, and fine thread and needle.

The Gathering Foot-Shirring

in the usual way will be slightly gathered. Any fabric that drapes well is especially suited for Material placed under the gatherer and stitched

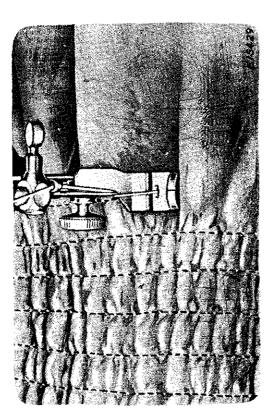
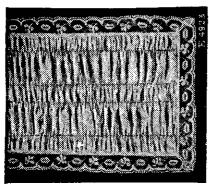


Fig. 33.

shirring with the gatherer, generally with a long stitch and tight tension. To increase the fullness of the gathers, lengthen the stitch. To decrease the fullness, shorten the stitch.

Fine materials, such as batiste, silk or net, may be very attractively shirred. Where only a slight fullness is required, as at the top of a sleeve or rows as shown in Fig. 33. The material may be guided as easily as when sewing with the presser foot. around the neck, the gatherer will be found very With the gatherer, it is possible to shirr in narrow convenient.



Shirring. Fig. 34.

the bobbin. Fig. 35 shows a white organdie collar and cuff set with red and green smocking or tatting thread on the top and white cotton on the A very pleasing effect may be gained by using made with the gatherer, using fine crochet cotton thread or embroidery silk of contrasting colour on

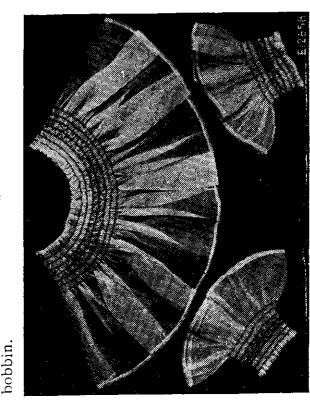


Fig. 35. Smocking.

The Foot Hemmer—Hemming

Clip off the right hand corner of the material for its edge to curl easily. Then, with the hemmer foot raised, place the material from left to right under

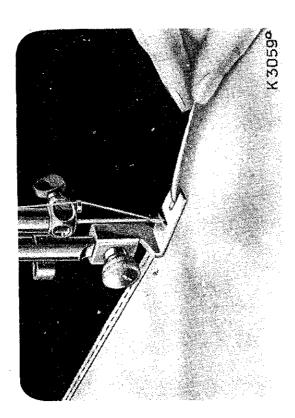


Fig. 36.

the foot and, with its edge slightly raised, insert the corner into the mouth of the hemmer, easing it along until it fills the curl and reaches the needle. Lower the foot and make the first few stitches slowly. Guide the material with the thumb and forefinger of the right hand, so that the edge lies flat over the top of the hemmer, and proceed to sew, taking care to keep the hemmer curl just full. Should the edge begin to run out, move the hand to the left; should too much material run in, move to the right.

Hemming and Sewing on Lace in one Operation

Start the hem, as explained on page 34, and, when it is well started, raise the needle to its highest

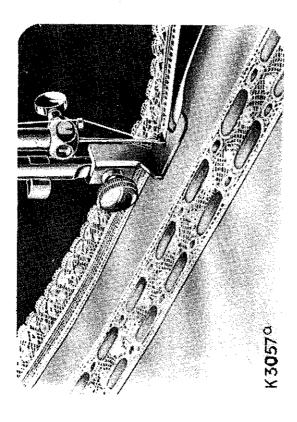


Fig. 37.

point. Raise the hemmer to relieve the pressure on the hem, and pass the end of the lace through the slot in the side of the attachment and over the hem, as shown in Fig. 37.

Take care that the hem is not displaced in the hemmer, and that the needle goes through both lace and hem. Then lower the presser bar, and guide the lace over the front of the hemmer, taking care to keep it well into the slot.

The Foot Hemmer-Felling

The two pieces of cloth should be laid, wrong side out, one over the other, with the edge of the under

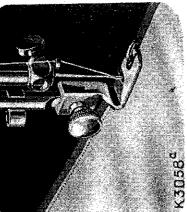
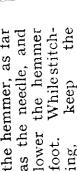


Fig. 38

 $^{\mathrm{the}}$ shown in Fig. 38. Stitch the two ecting part of the hemmer as a guide seam straight. This close, but not too piece a little farther to the right than the upper piece, as using the front promade near to the edge of the upper piece, or together, keeping the þe plnous Stitch pieces for

the cloth will give way at the seam when a strain is put upon it.

the hemmer, as far ower the hemmer push the of the seam into the mouth of as the needle, and edges at the begin-Raise the hemmer foot and open wrong side up, so that the edges will stand up straight. the work out flat, hen ning



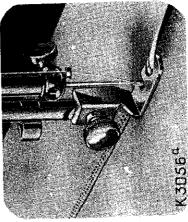


Fig. 39.

material perfectly flat, using both hands, and see

For the second seam, the stitch should be lengthened that the seam is in line with the mouth of the hemmer.

slide to the right as and turn it towards down a hem of the desired width, pass the fold under the far as it will go, you, as in Fig. 41. To make a hem more than one inch loosen draw and extension wide, screw, Pold

right of the hemmer,

₩ 1,7

The Adjustable Hemmer

With its slide closed, see Fig. 40, the attachment will make hems up to one inch wide.

slide of the Loosen the screw at the front and until the pointer is width, then tighten between the slide and the and forward until against the desired Insert number gauge, and draw it backward the the screw. the edge material move

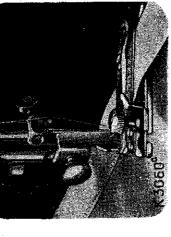


Fig. 40.

presser bar and sew, taking care in guiding the work to keep the hemmer full. Felling can also be done stopping with its end under the needle. Lower the by following the instructions on page 36. the hem is formed,

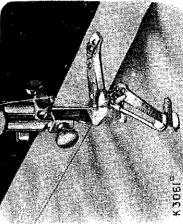


Fig. 41

then insert the edge of the material into the tolder, and proceed to sew.

The Ruffler

Lines 1, 2, 3, 4 and 5 in Fig. 42 indicate where the material is to be placed for various operations, as rollows:

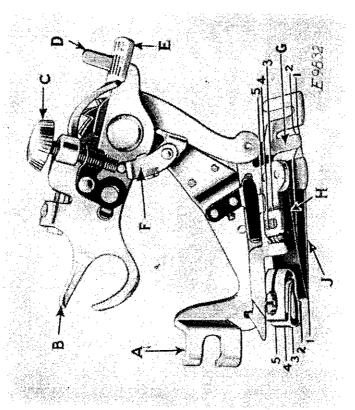


FIG. 42. THE RUFFLER AND ITS PARTS.

Line 1—the correct position for the material to which the ruffled material is applied.

Line 2—material to be ruffled

Line 3—the facing for the ruffle.

Line 4—the strip of piping material.

Line 5—the edge to be piped.

Refer to Fig. 42 when inserting the material in the ruffler.

The names and uses of the principal parts of the ruffler are as follows, see Fig. 42: A—Foor—the part by which the ruffler is attached

B-FORK ARM-the section that must be placed astride the needle clamp. to the presser bar.

C-ADJUSTING SCREW—the screw that regulates the fullness of the gather.

D—Projection—the part that projects through the slots in the adjusting lever.

every six stitches or once at every twelve E—ADJUSTING LEVER—the lever that sets the ruffler for gathering or for making a plait once at stitches, as desired; also for disengaging the ruffler, when either plaiting or gathering is not desired.

F-ADJUSTING FINGER-the part which regulates the width or size of the plaits.

G-SEPARATOR GUIDE-the guide on the underside of the ruffler, containing slots into which the edge of the material is placed to keep the heading of the ruffle even; also for separating the material to be ruffled from the material to which the ruffle is to be attached.

H-RUFFLING BLADE—the upper blue steel blade with the teeth at the end to push the material in plaits up to the needle.

without teeth, which prevents the teeth of the ruffling blade coming into contact with the J-Separator Blade—the lower blue steel blade feed of the machine or the material to which ruffle or plaiting is to be applied.

To Attach the Ruffler to the Machine

to the presser bar from the right and fasten by means of the thumb screw, at the same time placing the fork arm (B) astride the needle clamp as shown Raise the needle bar to its highest position and re-Attach the ruffler foot (A) move the presser foot.

To Adjust the Ruffler for Gathering

The adjusting finger (F) is not intended for gathering and should be moved forward or away from the needle, as shown in Fig. 43.



Fig. 43.

marked"1" in the adjusting lever (E) when the Insert the material to be ruffled between the two blue blades, following the line 2 in Fig. 42. Draw the material slightly back of the needle, lower the Raise the adjusting lever (E) and move it to the left so that the projection (D) will enter the slot lever is released. The ruffling blade will then move forward and back once at every stitch. presser bar and commence to sew.

gathering, lengthen the stroke of the ruffling blade by turning the adjusting screw (C) downward; also lengthen the stitch. By varying these adjustments, many pleasing varieties of work can be To make fine gathering, shorten the stroke of the ruffling blade by turning the adjusting screw (C) upward; also shorten the stitch. To make full accomplished

4

To Make a Ruffle and Sew it to Garment in One Operation

Insert the material to be ruffled between the two blue blades, as shown in Fig. 44, following the line

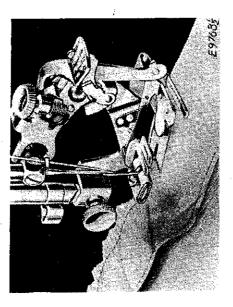


Fig. 44.

2 (Fig. 42). Place the garment to which the ruffle is to be attached, under the separator blade, following the line 1 (Fig. 42). Proceed the same as for gathering.

The edge of the ruffled seam can later be bound by using the Binder.

Fo Ruffle and Sew on a Facing in One Operation

blue blades, following the line 2 (Fig. 42). Place the garment to which the ruffle is to be attached line 3 (Fig. 42). The facing may be straight or bias material. If the facing is to be on the right Insert the material to be ruffled between the two (Fig. 42). Place the material for the facing over the upper blue blade, as shown in Fig. 45, following the side of the garment, place the garment and the ruffle so that the wrong sides are together. If the under the separator blade, following the line]

facing is to be on the wrong side, place the right sides of the garment and the ruffle together.

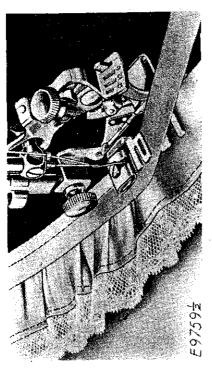


Fig. 45.

Piping a Ruffle

Insert the material to be ruffled between the two blue blades, following the line 2 (Fig. 42). This

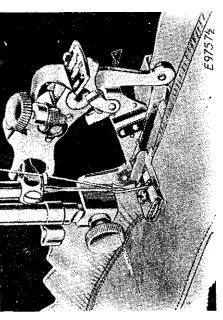


Fig. 46.

material must not be over 14 inches wide, as it is carried through the ruffler with the finished edge of the ruffle to the right of the attachment as shown in Fig. 46.

The material for piping must measure about ‡ inch wide when folded in the centre and is usually cut on the bias. Place the piping material in the ruffler, following the line 4 (Fig. 42) with the folded edge of the piping to the right. The material to which the piping and ruffling are to be sewn should be folded on the edge and inserted in the ruffler, following the line 5 (Fig. 42).

To Adjust the Ruffler for Plaiting

Raise the adjusting lever (E) and move it to the right so that the projection (D) will enter the slot

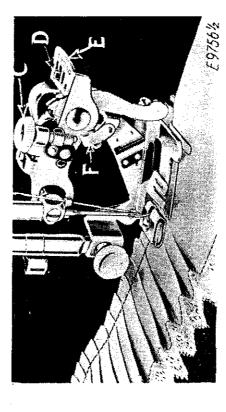


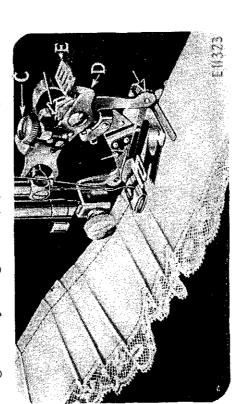
Fig. 47.

marked "6" in the adjusting lever when the lever is released. The ruffling blade will then move forward and back once at every six stitches. To adjust the ruffling blade to make a plait once at every twelve stitches, place the adjusting lever (E) so that the projection (D) enters the slot marked "12" in the adjusting lever. Insert the material to be plaited between the two blue blades, following the line 2 (Fig. 42). The size or width of plaits is regulated by the adjusting screw (C) and the

ward. To make a smaller plait, turn the adjusting screw (C) upward. The distance between plaits To make a wider the needle and turn the adjusting screw (C) downadjusting finger (F, Fig. 47). To make a wider plait, move the adjusting finger (F) back or toward is regulated by the length of stitch.

Group Plaiting and Gathering To Adjust the Ruffler for

lifting the adjusting lever (E) and moving it to the The ruffler can be adjusted for group plaiting by



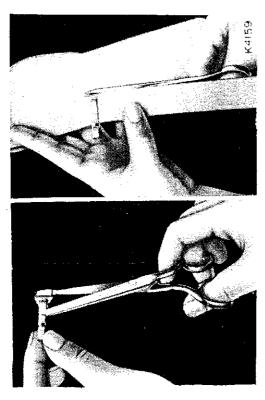
"12." By alternately making groups of plaits and plain spaces, as shown in Fig. 48, very attractive ruffler will then stop and plain stitching will be right so that the top of the projection (D) enters the small slot indicated by the star on the adjusting wish to make the space between the plaits. The This should be done at the points where you enters either the slot marked "6" or the slot marked made. When the desired space has been made, adjust the lever (E) so that the projection (D) work can be produced.

To Oil the Ruffler

prevent the oil soiling the work. If the ruffler does Occasionally apply a drop of oil to the working parts of the ruffler at each of the places indicated by operate the ruffler on a waste piece of material to the unlettered arrows in Fig. 48. After oiling, not plait evenly, a drop of oil may remedy the trouble.

Bias Gauge

The Bias Gauge will be found very useful (especially in the case of soft materials) when cutting bias strips from 16 inch to 18 inches in width. This may



11g. 4U

the scissors and setting the blued indicator to the width desired. The line F is the point at which to set the blued indicator for facings, the line B for be done by placing the bias gauge upon the point of binding, and the line C for cording or piping. Insert the material in the gauge with the edge against the blued indicator, and hold as shown in Fig. 49. Bias binding for use with the Binder Attachment should be cut $\frac{1}{16}$ inch wide, and to do this the indicator should be set midway between the lines F and B.

Cording Feet

Presser feet for stitching on edge and inserting ct d are made in two styles, 125035 for stitching on the left side of the needle, and 121877 adjustable

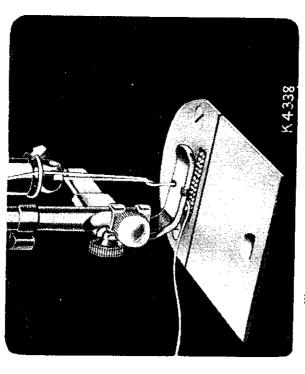


Fig. 50. The Adjustable Cording Foot.

for stitching on either the right or left side. Both feet produce identical work, and the different styles meet the individual requirement of the operator. For Edge Cording—fold the edge of the fabric over the cord and stitch close to the cord, guiding the work by hand.

the cord and insert the covered cord between the two pieces of fabric, with all raw edges together and For Corded Seams-fold the bias strip around the right sides of the fabric together. close to the cord.

Darning

Remove the presser foot and fit Feed Cover Plate No. 108002 over the feed dog by inserting the single prong into the long slot at the front of the throat plate (see Fig. 51), pressing lightly on

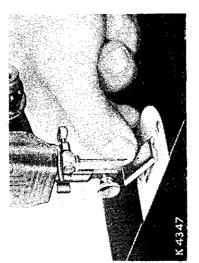


Fig. 51.

the cover plate until the two prongs engage in the slots at the rear of the th oat plate.

Attach Spring Darning Foot No. 121094, but do not tighten the thumb screw. Stretch tightly the article to be repaired in an embroidery hoop and place below the needle by tilting the edge of the hoop. Then lower the presser bar by means of its lifter, and adjust the height of the darning foot to allow just sufficient space for the free movement of the work. After adjustment, tighten the thumb screw securely. The hoop should be moved backward and forward by the hands and the hole or damaged part completely covered with stitching in one direction before turning the work at a right angle and stitching across to complete the darn.

4

When the machine is to be used again for plain stitching, replace the presser foot and remove the feed cover plate by inserting the blade of the small screw driver in the notch and twisting to the right, as shown in Fig. 52.



Fig. 52.

Embroidery

For lace embroidery, i.e. open work, remove the presser foot and attach Feed Cover Plate No. 108002 and Spring Foot No. 121094, as described on page 48.

For surface embroidery, where a clear view of the stitching is required, neither foot should be used.

Quilter

The quilter guide can be used at either the right or left of the needle, and the distance of the guide from the needle determines the width between the

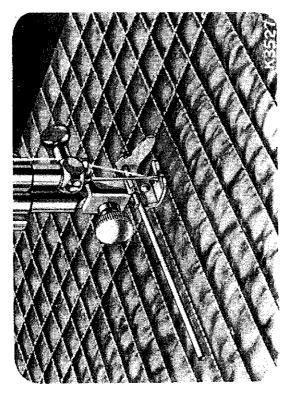


Fig. 53.

Slide the wire into its holder on the foot, and set it to the width desired; then lower the foot on to the material. rows of stitching.

To Quilt.—For the first row of stitching, let a straight crease, or a line, as preferred. Succeeding rows are made straight and at a uniform distance by keeping the previous row steadily under the the quilter guide follow the edge of the material, guide, as shown in Fig. 53.

5

Under Braider-Braiding

Fit the quilter foot, as shown in Fig. 54.

To attach the under braider, insert the downwardly projecting hook of the attachment into the

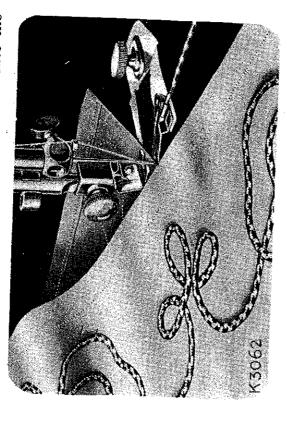


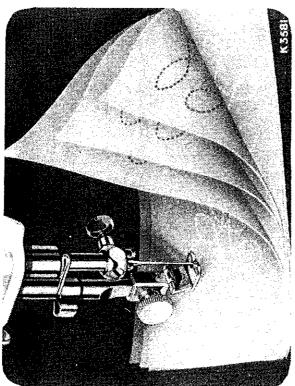
Fig. 54.

Then place the guide thumb screw in the slot of the hole in the throat plate at the right of the feed dog. attachment and into the hole in the bed plate of the must be machine. The under braider secured by tightening the screw.

The pattern or design to be braided must be Pass the braid from the left between the blued guide and the lower plate until it enters the back and lower the presser foot and proceed to sew, following Place the material, wrong side up, above the braid, front braid guides, and then under the needle. stamped or traced on the wrong side of the material the lines of the design.

Perforated Braiding Designs

Instead of stamping or tracing the pattern on the material itself, a perforated paper design may be used.



machine by pinning it to several sheets of paper, as A braiding design may be copied with the sewing shown in Fig. 55.

Several copies of the design can be made in this way, one of which can then be pinned to the matthe machine, follow the design with the needle. erial to be braided and torn away when the braiding Attach the quilter foot and, without threading s finished.

53

Tuckmarker

Fit the tuckmarker, as shown in Fig. 56.

The attachment has two figured scales, that in front (the space scale) in eighths and the central clip (the tuck scale) in sixteenths of an inch.

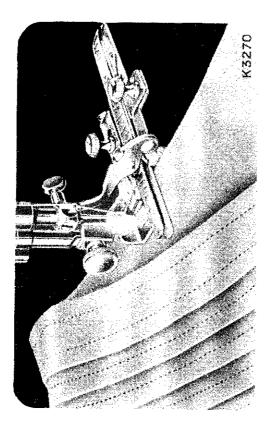


Fig. 56.

For instance, if this is required to be 4 inch, loosen the back thumb screw and slide the guide until its straight edge is over the figure 2, then tighten the The tuck scale determines the width of the tuck. screw.

scale may be moved in either direction to give the By loosening the front thumb screw, the space space between each, the space scale should show the When the instance, if 4 inch tucks are wanted with 4 inch clear figure 3 exactly in line with the needle hole; or if required width is obtained tighten the thumb screw. desired width between the lines of stitching. no space is required, then the figure 2.

To operate the tuckmarker is exceedingly simple. Fold the material by hand and place it in the attachment by passing the folded edge over the upright marking point below the left hand end of the space scale, then between the tuck guide and below the foot. The lever on the top must also be down in position, as in Fig. 56, and the edge of the fold up against the small guide.

Lower the presser bar lifter and sew as usual, being careful to keep the folded edge against the guide. When the first tuck is completed the material will be found creased for the second tuck. Fold the material at the crease and, with its plain side uppermost, proceed as before. When making the last tuck, raise the lever so that it does not press on the space scale. In this position no crease for a succeeding tuck is made in the material.

Use the table below to assist you in setting the Iucker.

1 // 1	5.			Tuck Guide	Space
tucks	with		space	¬	—
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Ξ	=	ou ·	Ξ	কা	31
=	=	⊢\ 4	Ξ	71	ന്
=	=	סנו	=	ᅻ*	4
=	=	<u>-</u> %1	Ξ	→	9
Ξ	=	110	=	20	90

(Class and Variety of Needles used 15×1)

Sizes of Cotton, Linen or Silk	Postupality 03:		50 Silk. 50 Sylko.	40 to 60 Cotton.	24 to 40 Cotton; 60 to 80 Linen.	70 to 60 to 1	
CLASS OF WORK TO SEW	Harris Call		Calicoes, Silk, Tight, Woollens and all classes of general work.	All kinds of heavy calicoes, Drill; Woollens, etc.	Trickings, "Heavy" Woollens, Trousers, Boys' Clothing, Cor- sets, Cloaks, Mantles and Heavy Clothing generally		
Sizes of Needles		数		91	<u>\$</u>	10 00 01	

Scale

In sending orders, always specify the sixe required.

