# Nov. 18, 1924.

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G. P. GARDNER PROCESS OF MAKING NECKTIES Filed Oct. 8. 1921

## 1,516,181



Inventor Jus. P. Gardner. By Word o Word 14/1

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UNITED STATES PATENT OFFICE.

GUS P. GARDNER, OF LUDLOW, KENTUCKY.

PROCESS OF MAKING NECKTIES.

Application filed October 8, 1921. Serial No. 506,468.

*o all whom it may concern:* form is disposed between the fold layers, Be it known that I, GUS P. GARDNER, a thereby enabling the tie to be shaped and To all whom it may concern:

citizen of the United States, and residing stitched in exact conformity with the outline 5 State of Kentucky, have invented a new and ished product and one which will more peruseful Process of Making Neckties, of which manently retain its form shape in use. the following specification is a full disclo- Another object of my invention is to fold sure.

10 ing scarfs or neckties, in which the fabric is the reverse side of the tie, on a blind-stitch folded to provide a plural-ply band, giving sewing-machine. body to the product and providing fold Another object of my invention is to fold edges longitudinally thereof, and enabling the fabric over a former and lining, with the 15 as well as imparting tubular characteristics thereto, for enclosing a stiffening or lining between the layers.

ric, cut to a particular form pattern, has its various manipulative steps for folding and 75 20 opposite longitudinal edges stitched together stitching the fabric, whereby the stitching to form a tube. The fabric is folded upon forms the final step in the making of the tie, itself, wrong side out for stitching, bring- and to the provision of a form which will ing the raw edges together along one longi- permit the fabric to be stretched thereover, tudinal edge, which is hemmed or seamed by and machine-sewed with the form in posi- 80 25 the ordinary sewing-machine, stitching tion between the fabric layers, and to a finthrough from both sides of the lapped ma- ished product with the lining stitched to the terial. The tube thus formed, is turned to tie fabric, without exposing the stitching on bring the reverse side or under face of the the face side of the tie, all of which is clearfabric inward and also adjusted to bring the ly revealed in the description of the accom-<sup>85</sup> so seam along a central longitudinal line upon panying drawings, forming a part of this the rear side of the tie or band. This re- specification, and in the drawings like charquires considerable manual manipulation acters of reference denote corresponding and hand-pressing. After the stitching and parts throughout the several views, of turning operation, the lining is then drawn which: 35 into the flat tube, which is a very tedious Fig. 1 is a plan view of the form over and laborious manual operation requiring which the tie fabric is folded. considerable skill and time in order to Fig. 2 is a plan view of an end of a tie smoothly insert the lining. This operation folded over the form and partly stitched, is very complicated because of the tapering with a portion of the fabric fold thrown 95 40 outline of some forms and styles of neck- open to disclose the lining, form, and one wear, the neckband portion of the tie being of the fabric edge seams lapped. considerably narrower than the opposite end Fig. 3 is a section on line 3, 3, Fig. 2. portions.

at Ludlow, in the county of Kenton and of the form, to produce a more superior fin- 60

the fabric to its finished form and to stitch My invention relates to a process of mak- together the lapped edges of the fabric on 65

the raw edges of the fabric to be concealed, opposite longitudinal edges of the fabric 70 meeting centrally of the reverse sides of the tie, and to stitch the same together and to the lining.

Under the prevailing methods, the tie fab- Other objects of my invention relate to the 90

Fig. 4 is a section on line 4, 4, Fig. 1. It is, therefore, an object of my invention Fig. 5 is a sectional view, illustrating the 100

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45 to overcome the time consuming and labor-stitching position of the tie and lining, held ious operations necessary in the prevailing upon the form, and parts of the fabric methods of manufacturing neckties, by raised upwardly through the feed plate to avoiding any turning operations; by seam- expose the upper fabric layers for needle ing the folded fabric with the lining insert- engagement. 50 ed, whereby the lining may, if desired, be Referring to the drawings, 1 indicates stitched to the fold layers of the fabric at the tie form over which the tie fabric is the reverse side of the tie. Another object of my invention is to fold tern to be given to the finished tie to meet the fabric, after being cut to pattern, over the prevailing fashions, and as shown pro- 110 55 a form and to stitch or seam the longitudi- vides a central narrow width portion 2 for nal edges of the fabric together, while the the neckband portion of the tie. From the

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width to the opposite ends. It is made from side down, then apply the form centrally a flexible material, such as sheet metal, and upon the upper or fabric reverse side, fold is provided with a central longitudinal slot the fabric over the form, adjusting it to \$ 3 open at one end of the form, dividing the the form, so that the longitudinal opposite 70 form into a pair of strips, adapted to be edges of the fabric overlap for a stitch line flexed toward and upon one another at its within the stitch-way or slot 3 of the form. open slotted end to enable the forms to be The layer portion or fold (say 5) presented withdrawn from the tube, which the tie uppermost upon the opposite layer portion 10 forms after stitching. This is necessary on or fold 6 has its longitudinal edge doubled 75 account of the narrow neckband portion 2, back or hem-folded to conceal the raw edge the strip ends when overlying each other when the folds are stitched together. presenting a width approximating or less If the lining 7 is to be used, this is placed than the normal neckband portion. The upon the upper side of the form before the 15 slot also provides a stitch-way for the sew- fabric ends are folded, to bring the lining ing-machine and a slide-way for the slide- between the form and folds 5, 6, or it may be plate or block 4. This slide-plate has its op- placed below the form. This preliminary posite edges grooved for engagement with operation permits the folded fabric, lining the form strips, so that the slide can be slid and form to be adjusted for a proper po-20 longitudinally of the form, progressing with sitioning of the parts. The assembled parts the stitching or sewing advance to prevent are then fed through a sewing-machine for the inward compression of the form strips seaming the lapped ends of the folded fabas the tie fabric is folded and stretched ric together from one end thereof, longituthereon.

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neckband portion 2 it tapers, increasing in fabric its full length upon the table, face dinally to the other end. 25 The use of this particular construction of A blind-stitch sewing-machine is preferavery desirable in a process wherein the tie which 8 indicates a feed plate having an fabric is folded to form, and stitched at aperture through which the goods fed there-35 the same time, and preference to its use will beneath is pressed by a plunger 9. This 200 be given in the following description of the crimps the goods, bringing the crimp 10 in a position in which the needle 11 can pene-The tie fabric is cut to the desired out- trate the goods to the depth or degree re-40 or form of tie which does not differ in pat- As shown in said figure, the needle pene-105 tern from that used in the prevailing meth- trates to a degree engaging the interlining tern need not be regarded as a step in the 12 as the face layer of the tie. The plunger process, likewise as to the cutting of the of the machine is adjustable for regulating 45 lining to pattern, if a lining be used. 10 the depth of stitch, therefore the adjustment 10The tie fabric, presumed to be cut to its can be made to avoid stitching the lining to proper pattern, is initially folded over the the folds or back of the tie, and if desired, form for its full length or progressively an adjustment can be made, so that the neewith the stitching, and as fed to the sewing- dle will penetrate the front of the tie, but machine, depending upon the skill devel- without going through the face side, so as 116 oped, or upon the method preferred by the not to show any stitch mark on the face side. operator. The inserting of the form or the The lining, therefore, can be securely fasfolding of the fabric over the form, while tened within the tie, so that it will not wad treated as a step in the process, need not up or slip out of position. With the lining

form is very advantageous to my method bly used for stitching, Fig. 5 illustrating the or process of making a tie and facilitates stitching operation. A commercial machine various operations thereof, but the details adaptable for this work is known as a of construction are not essential in practis- "Lewis zero-degree flat bed machine." The 30 ing my method of tie manufacture, as it is figure diagrammatically illustrates such possible to eliminate the form during the parts of a blind stitch sewing-machine as step of stitching. The form, however, is are sufficient for the present purpose, in

process.

line pattern necessary for a particular style quired. ods, so that the cutting of the fabric to pat- 7, but without penetrating the under layer

55 follow such definite direction, except that securely held in place, the tie will retain 120 the fabric is folded over the form with the its original shape for a longer period than face side of the fabric outward, and the lap- otherwise and eliminate other undesirable ping of the opposite longitudinal edges of features, and the lining is felled without an the fabric along a line over the slot or increase in cost or labor. <sup>60</sup> stitch-way in the form is made, so that the The folded fabric with the inserted form <sup>125</sup> opposite longitudinal edges of the fabric and lining is fed to the machine from one along a line over the slot or stitch-way in end, as shown in Fig. 2, with the back of the the form, can be properly operated upon by tie or fold side uppermost, the operator, as the sewing-machine for stitching. A pri- the sewing advances or progresses, drawing mary way is for the operator to place the and stretching the folds toward each other 180

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align and register the same with the stitch- the interlining and lapped ends only. advancing the slide-plate. After the longi- sisting in folding the pattern fabric over a 5 tudinal stitching has been completed, the form is withdrawn, and the opposite end ing the ends along a medial longitudinal line edges trimmed and hemmed, as desired, of the form, inserting an interlining within after which the tie is pressed, whereupon is presented a finished product.

10 Drawing the fabric tautly over the form and centering the seam at the time of stitching, leaves the tie after stitching in an approximately flat condition, in which it can be readily pressed without adjustment. 15 Under this process, the fabric is folded and stitched into the form of a tube with the face side of the fabric exposed, thereby eliminating a turning operation. Having described my invention, I claim: 20 1. The process of making a necktie, consisting in folding the tie pattern cut fabric over an appropriate form of interlining, face side of the fabric outward and lapping the folded longitudinal ends of the tie fab-25 ric at the rear side of the fie, and stitching the lapped ends of the fabric together and to the interlining by stitching running lon-

over the form and centering the seam to gitudinally of the tie and extending through way or slot in the form, and progressively 2. The process of making a necktie, con- 30 form, face side of the fabric outward, jointhe folded fabric, and stitching the ends of 35 the fabric and interlining together with a blind stitch.

3. The process of making a necktie, consisting in folding and stretching the tie fabric cut to pattern, face side outward, over a 40

form, bringing the opposite edge margins overlappingly together to form a tube, and stitching the meeting edges together, the folding over of the fabric being progressive with the stitching advance, and withdraw- 45 ing the form longitudinally after stitching. In witness whereof, I hereunto subscribe my name, as attested by the two subscribing witnesses.

GUS P. GARDNER.

Witnesses: L. A. BECK, BERTHA SCHLAN.

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