

N. FRIEDMAN.
SEWING MACHINE GAGE.
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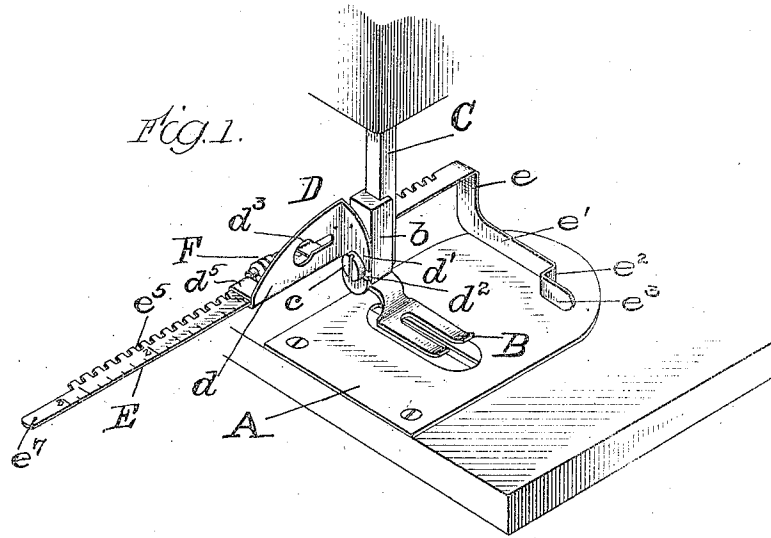
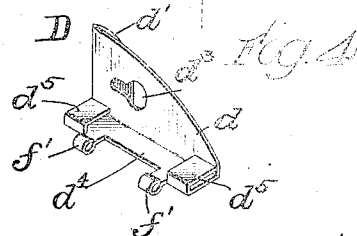
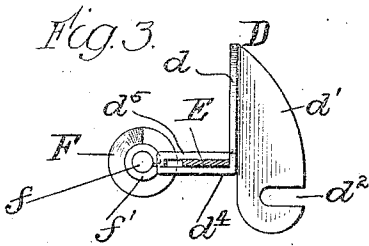
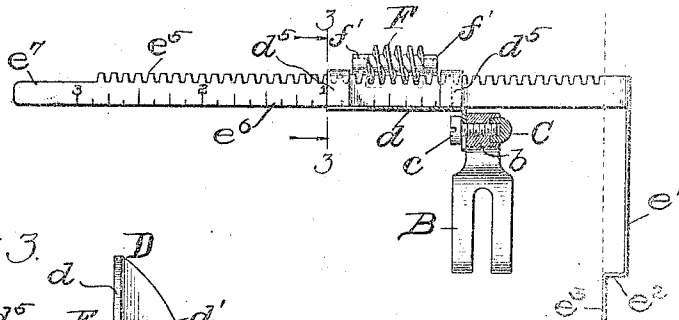


Fig. 2.



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UNITED STATES PATENT OFFICE.

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SEWING-MACHINE GAGE.

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To all whom it may concern:

Be it known that I, NATHAN FRIEDMAN, a citizen of the United States, residing at Chicago, Cook county, Illinois, have invented certain new and useful Improvements in Sewing-Machine Gages, of which the following is a specification.

The present invention relates to attachments for sewing machines which provide for regulating the line of stitches in its relation to the edge of the goods so as to secure uniformity in this respect.

The object is to provide a simple and efficient form of gage which can be readily applied to different makes of sewing machines without calling for any mechanical skill in fixing the attachment in place; and further to provide for easily accomplishing the necessary adjustment and for making that adjustment as fine as will be required.

The invention aims also to produce an article which can be inexpensively manufactured, but which at the same time will be durable and reliable.

With these objects in view the invention consists in certain novel features of construction and combinations of parts the essential elements of which are recited in the appended claims and a preferred form of embodiment of which is shown in the accompanying drawings and specifically described hereinafter.

Of said drawings, Figure 1 represents in perspective the presser-foot and bar and a portion of the framework and table of a sewing machine of the Singer type having my gage attachment fastened in place; Fig. 2 shows the gage in plan view with its supporting bracket in horizontal cross section, together with a similar illustration of the presser-foot and bar; Fig. 3 is a vertical section of the gage taken on the line 3-3 of Fig. 2; and Fig. 4 shows the supporting bracket of the gage in perspective.

The reference letter A designates the work plate of a sewing machine table, B the presser-foot, *b* the shank thereof and C the presser-foot bar to which the shank *b* is connected by a screw *c*.

The reference letter D designates in general a supporting bracket forming a part of the gage attachment, this bracket comprising a portion *d* in the form of a plate with a rounded edge, and a portion *d'* of similar character extending at right angles to the portion *d*. Said portion *d'* has an open

slot *d*² in its forward rounded edge, which slot is adapted to embrace the shank of the screw behind the head thereof, as illustrated in Figs. 1 and 2. It will thus be seen that by slightly turning back the screw *c* the bracket can be engaged therewith and then by tightening the screw the bracket can be securely fastened to the shank of the presser-foot. The other portion *d* of the bracket is formed with a key-hole slot *d*³, so as to adapt the attachment to a different make of sewing machine, such as the Wheeler & Wilson, which has the fastening screw for the presser-foot at the rear. The key-hole form of slot is employed so that when applying the bracket to this type of sewing machine it will not be necessary to withdraw the screw entirely but, as in the case of the screw already referred to, it can be turned back slightly and the large end of the slot slipped over the head of the screw and the bracket then moved laterally so as to carry the small portion of the slot around the shank of the screw. The latter then being tightened will hold the bracket securely to the presser-foot.

From the under edge of the portion *d* of said bracket there projects an integral flange *d*⁴ (Fig. 4) and ears *d*⁵ are bent up from the rear edge of this flange and over the top of the latter with spaces between so as to form a guide-way through which an elongated bar E can freely slide. At one end this bar is bent downwardly at right angles to form a short vertical portion *e* and thence extends forwardly as at *e'* and is then bent laterally as at *e*² and finally formed with a forwardly extending portion *e*³ which lies close to the work plate A parallel with the side edge of the presser-foot B. This portion *e*³ engages the edge of the goods to keep the line of stitches at the proper distance from such edge.

The bar E is formed along its rear edge with a series of rack teeth *e*⁵ slightly tapered and engaged by a worm-gear F which has trunnions *f* journaled in bearings on the bracket D formed by portions of the middle thereof extending rearwardly beyond the ears *d*⁵ and rolled back into circular form as clearly shown in Fig. 3, such bearings being designated by the reference letter *f*. It will be obvious that by applying finger or thumb to the worm-gear and turning the latter the bar E can be moved back and forth in the slide-way provided by the flange *d*⁴ and the

ears d^5 . It will further be apparent that through this means a fine adjustment of the gage can be had. In order to enable the operator to properly measure the adjustment the bar E is marked on top, adjacent the forward edge, with a scale e^6 running to eighths of an inch and adapted to register with the outer edge of the left-hand ear d^6 .

In order to facilitate the application of the bar to the bracket, avoiding the necessity of any bending back of portions of the latter or the use of any fastening devices, the bar E is reduced in width at one end as shown at e^7 , this reduced portion running up to the first of the rack teeth e^5 . It will be seen that with this construction the bar can be inserted in the bracket slide-way, the reduced portion e^7 moving past the worm-gear F until the first teeth e^5 strike the convolution of the worm-gear. By then turning the latter the bar can be worked through the slide-way to the desired adjustment.

It will be seen that the above construction provides an extremely simple and efficient form of gage which can be readily applied to different makes of sewing machines and which is capable of any desired adjustment by very simple and easy manipulation. It will also be noted that the form and construction of the parts is such as to provide for manufacture of the article in quantities inexpensively.

An advantage of the particular form of

adjusting means—a worm gear engaging a rack—is that the gage bar cannot be accidentally slipped by force applied directly to it.

Having thus described my invention, what I claim is:

1. A sewing machine gage comprising a bracket having portions extending at right angles to each other and each portion slotted for engagement with the fastening screw of the sewing machine presser foot shank, one such portion of the bracket or the other being fitted against the presser foot shank and said bracket having a slide-way to extend alongside said presser foot shank; and a gage bar in said slide-way.

2. A sewing machine gage comprising a bracket having portions extending at right angles to each other and each portion slotted for engagement with the fastening screw of the sewing machine presser foot shank, one such portion of the bracket or the other being fitted against the presser foot shank and said bracket having a slide-way to extend alongside said presser foot shank; a gage bar in said slide-way having rack teeth, and a worm-gear on the bracket engaging said teeth.

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