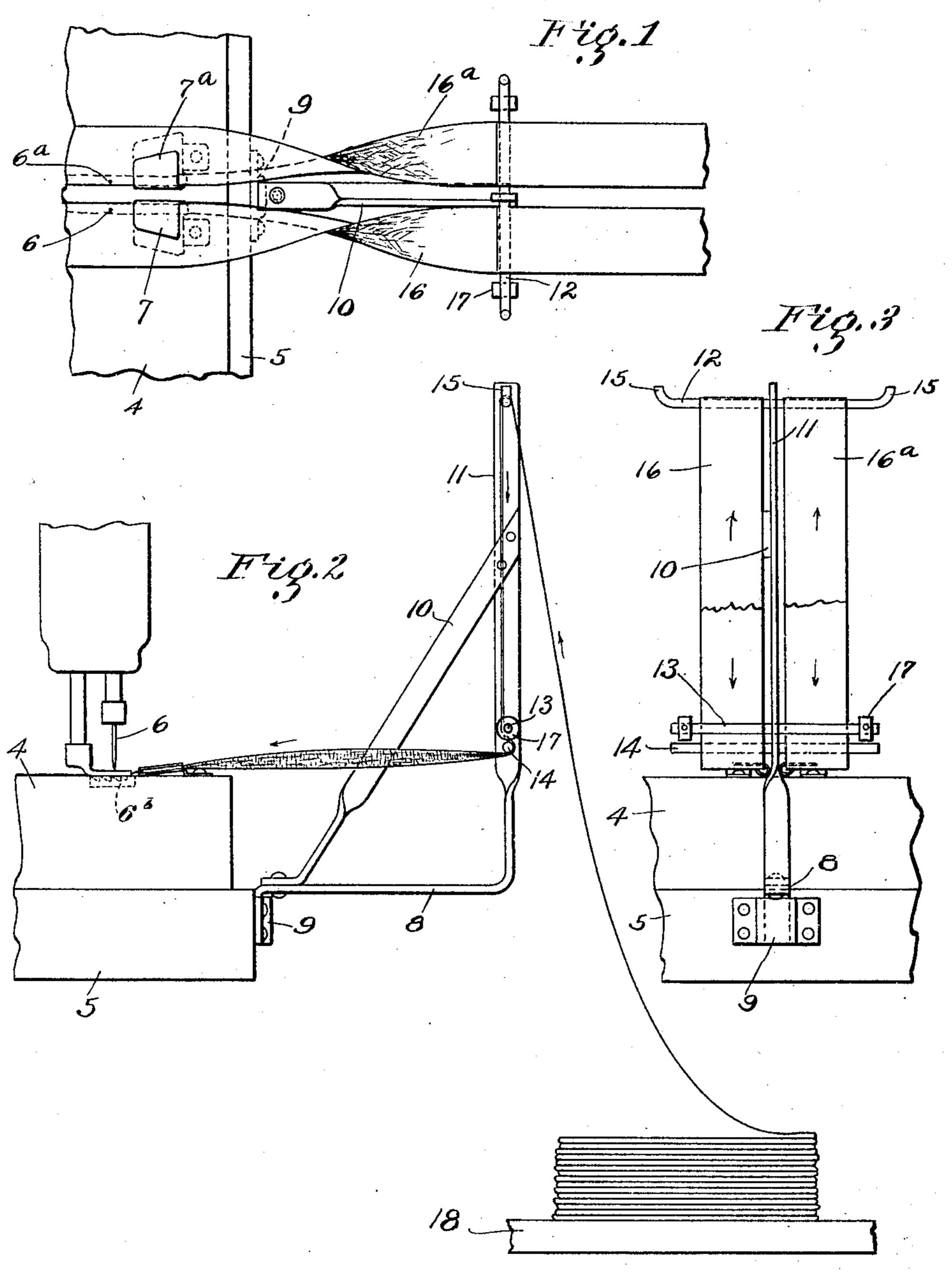
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SEWING MACHINE ATTACHMENT

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UNITED STATES PATENT OFFICE.

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SEWING-MACHINE 'ATTACHMENT.

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and more particularly to means for guiding cal plane and extending parallel to the plane fed to the double hemmers or guides of a upwardly hooked ends 15 to prevent the

5 duplex sewing machine.

machine, the strip of fabric is customarily distance above the intermediate bar 13. The 10 a duplex sewing machine it has been found to its ends with collars 17 also adapted to that a single operator can not satisfactorily prevent the fabric strips from sliding later- 65 operate the machine and properly guide two ally outward. strips of fabric to the respective hemmers. The fabric strips move in the direction In order that a single operator may satisfac- of the arrows from a table 18 or basket, up 15 torily operate a machine of this type, it has been found necessary to provide means for guiding and tensioning the strips as they are fed to the machine so that the hands of the hemmers. The strips are spaced apart by 20 machine.

To this end the present invention contem- said. plates the provision of a suitable sup- The fabric tensioning function of said bars port and a plurality of substantially hori-requires no explanation, for it is obvious that zontal tensioning bars carried thereby, said the strips 16 and 16a will be fed under even 25 bars being arranged one above another in tension and in straight paths, and unaproximately the same vertical plane. The wrinkled, to the hemmers 7 and 7ª respective- 80 strips of fabric are fed over the uppermost ly where they will be edge-turned for stitchbar and under the lowermost bar and thence ing. to the respective hemmers or guides of the sewing machine. By this means the fabric ity when the fabric consists of rather sleazy strips are fed under uniform tension and in strips of loosely woven material, for it is 85 straight paths to the needles of the machine.

A preferred embodiment of the invention is illustrated in the accompanying drawings

35 in which:

Fig. 1 is a plan view of the tensioning device attached to a duplex sewing machine; Fig. 2 is a side elevation thereof; and

Fig. 3 is an end view looking toward the

sewing machine.

A portion only of a duplex sewing machine lowing claims. is shown in the drawings, the base 4 of the machine resting upon a table or other support 5. The needles 6 and 6a feed dogs 6b 45 and hemmers 7 and 7a are of usual construction and arrangement as in the ordinary duplex needle machine.

The support for the tensioning bars comprises an angle frame 8 fixed to the table sioning bars arranged substantially horizon-5 at 9 and braced by the tie member 10, and tally on and symmetrically with respect to comprises an upstanding portion 11 which is said support, the uppermost of said bars be- 105 substantially vertical. Parallel bars 12, 13 ing spaced a substantial distance from the and 14 are fixed intermediate their ends in lowermost bar, each bar guiding both strips

This invention relates to sewing machines ing arranged in substantially the same verti- 55 and tensioning strips of fabric as they are of the needles. The uppermost bar 12 has fabric strips 16 and 16a from slipping lateral-In the operation of a single needle sewing ly therefrom, and is spaced a substantial an straightened and guided to the hemmer by latter is arranged a short distance above the the hands of the machine operator, but in lowermost bar 14, and is provided adjacent

over bar 15, downwardly to bar 13, passing forwardly thereover, then rearwardly and 70 beneath bar 14, and thence to the respective operator may be free to control the sewing the frame portion 11 and tie 10, and are guided by hooks 15 and collars 17 as afore-

The apparatus described has especial utildifficult evenly to control the tension of such strips when they are fed to the hemmers by hand. The tensioning device is simple and economical of construction and has been found to be extremely efficient in operation. 90 It is apparent, however, that details of construction may be varied to suit particular requirements without departing from the spirit of this invention so defined in the fol-

I claim:

1. In combination with a sewing machine having two needles, means for feeding a strip of fabric to each of said needles to be hemmed, a single support for tensioning bars in the 100 plane bisecting the space between the needles, and a plurality of substantially parallel tenopenings in frame portion 11, said bars be- of fabric which pass over the uppermost bar

and under the lowermost bar and thence to sioning bars so that the strips of fabric will 5 pass one on either side thereof.

2. In a guide device for use with a sewing machine having two needles, and means for feeding a strip of fabric to each of said termediate bar, rearwardly beneath the lowtensioning bars, and a plurality of substan- for threading strip material into the device. tially parallel tensioning bars arranged substantially horizontally on and extending sym-this 20th day of July, 1926. metrically in opposite directions from said

support, the uppermost of said bars being the respective needles, said support being spaced a substantial distance from the lower- 15 positioned intermediate the ends of said ten- most bar and an intermediate bar being spaced adjacent said lowermost bar, the opposite extensions of said bars being adapted to receive and guide a strip of fabric to pass over the uppermost bar, forwardly of the in- 20 needles to be hemmed, a single support for ermost bar, said bars having their ends free

Signed by me at Boston, Massachusetts,

ARTHUR G. KAY.