

No. 619,877.

Patented Feb. 21, 1899.

J. DOUGLAS.  
SEWING MACHINE CORDER.

(Application filed Jan. 31, 1898.)

(No Model.)

Fig. 1.

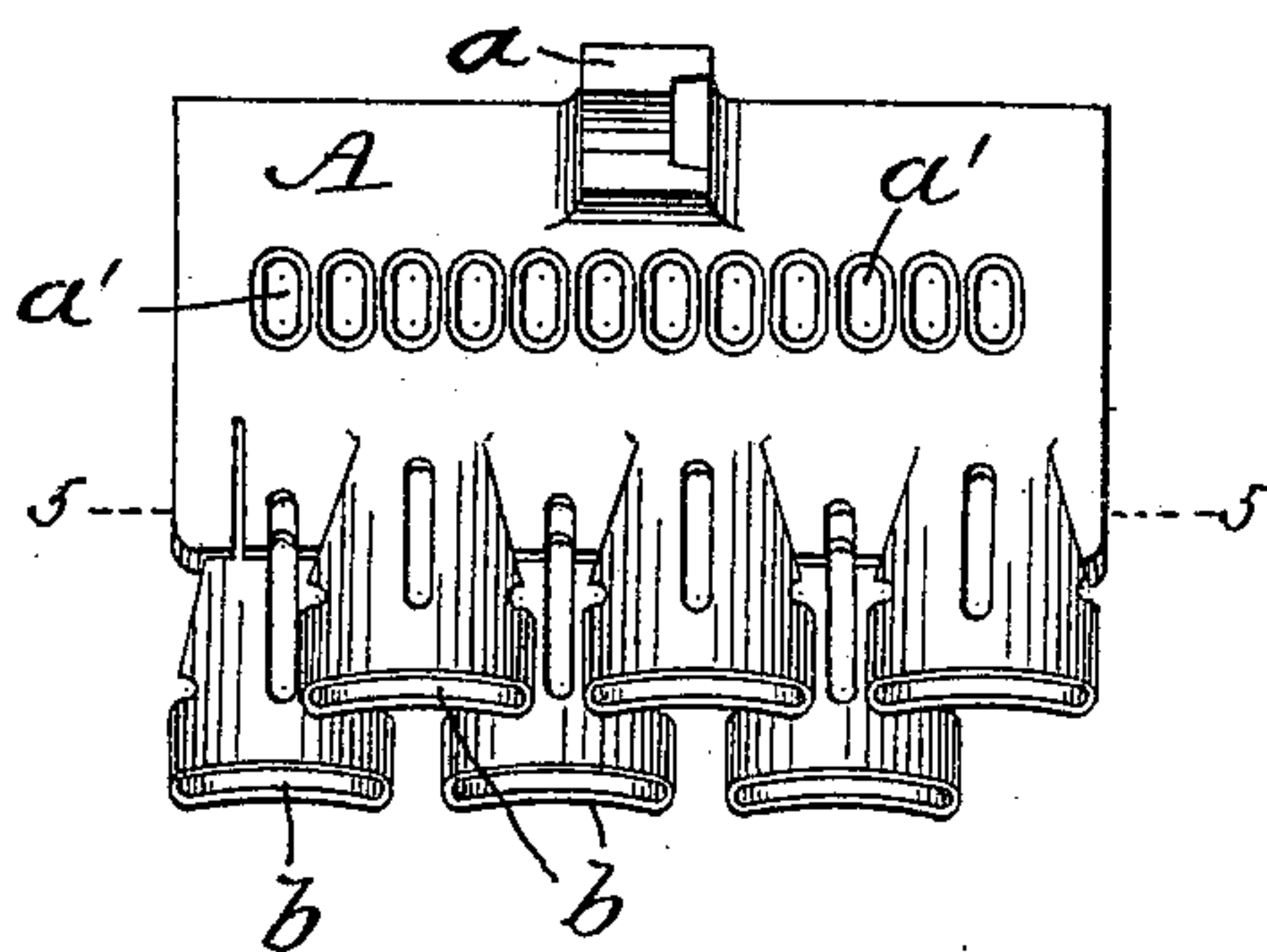


Fig. 2.

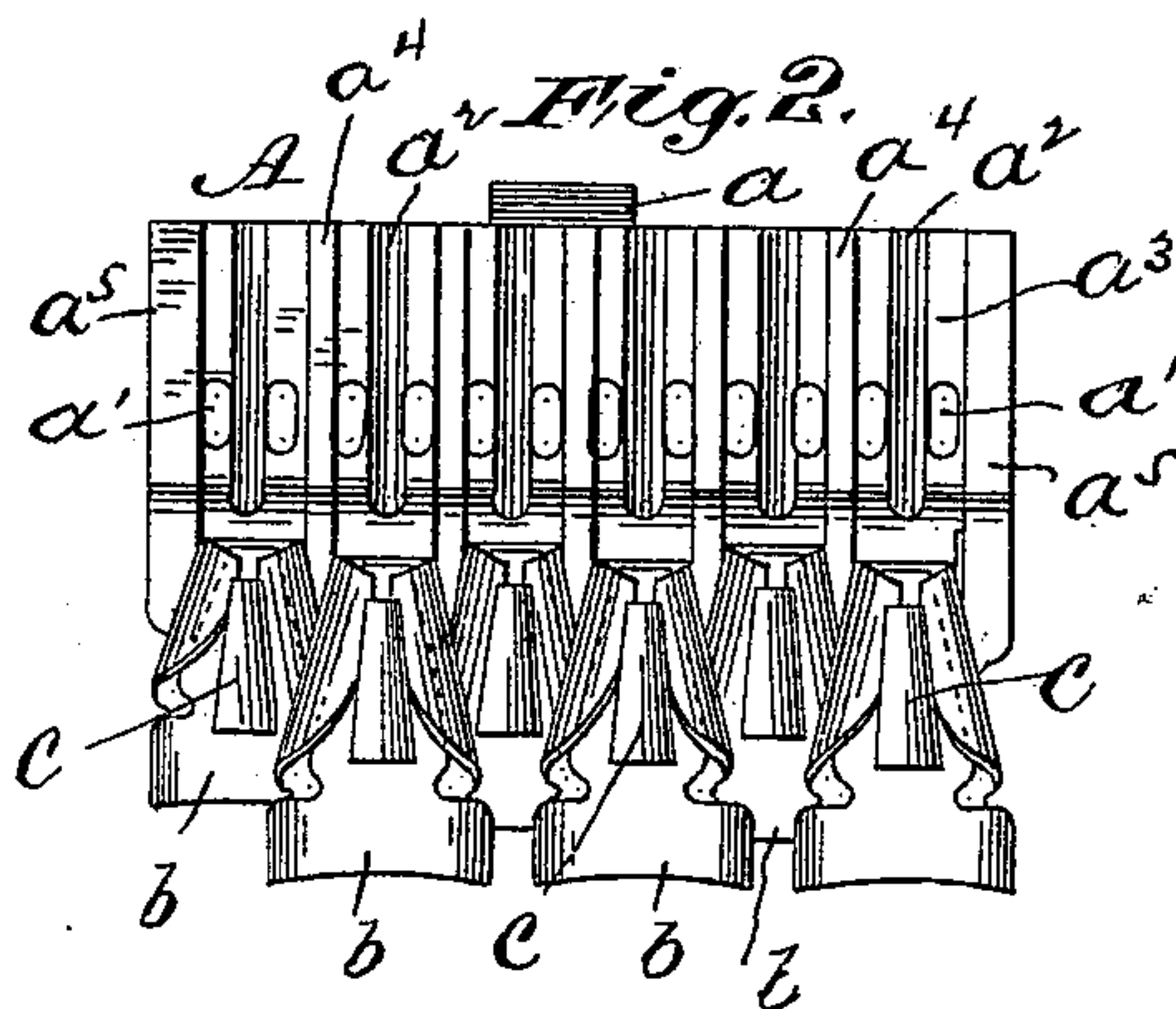


Fig. 3.

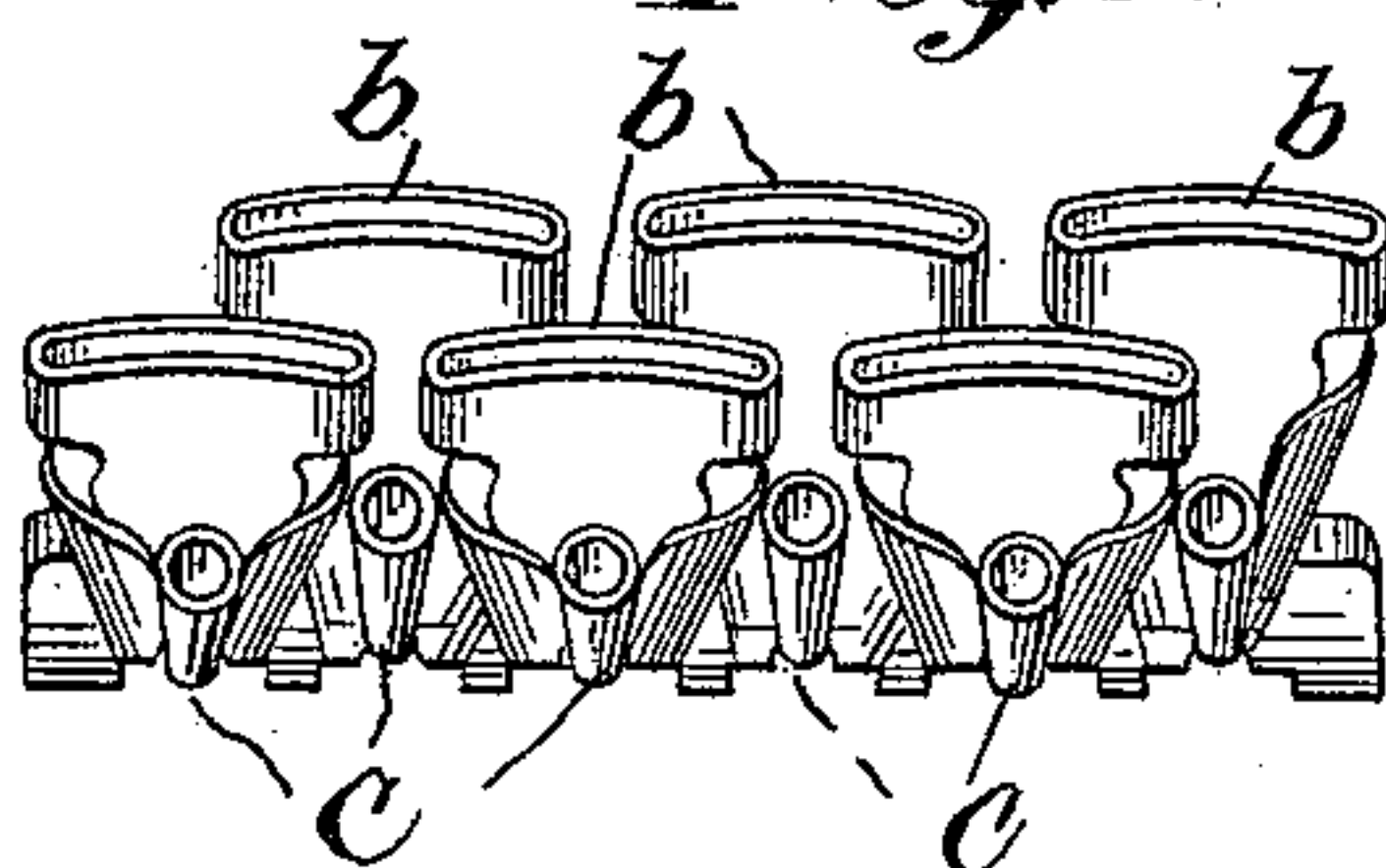


Fig. 5.

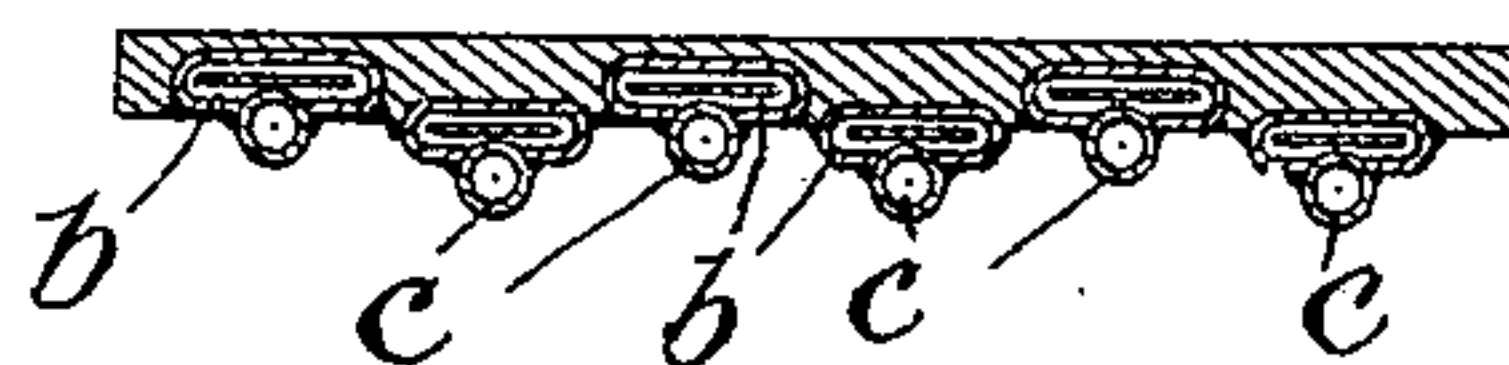


Fig. 6.

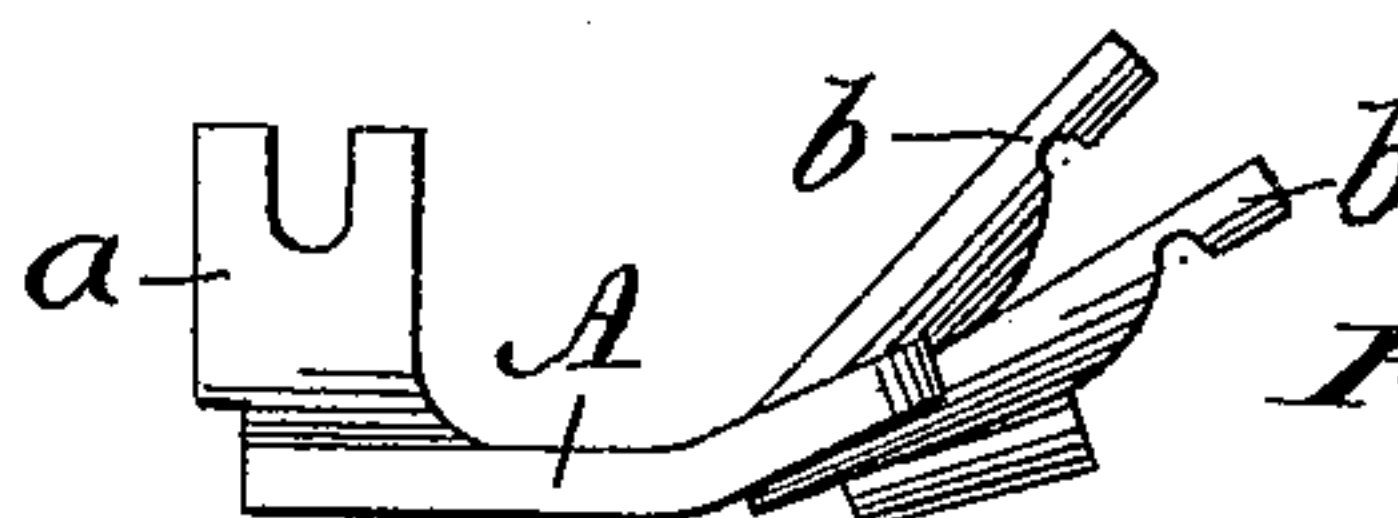


Fig. 4.

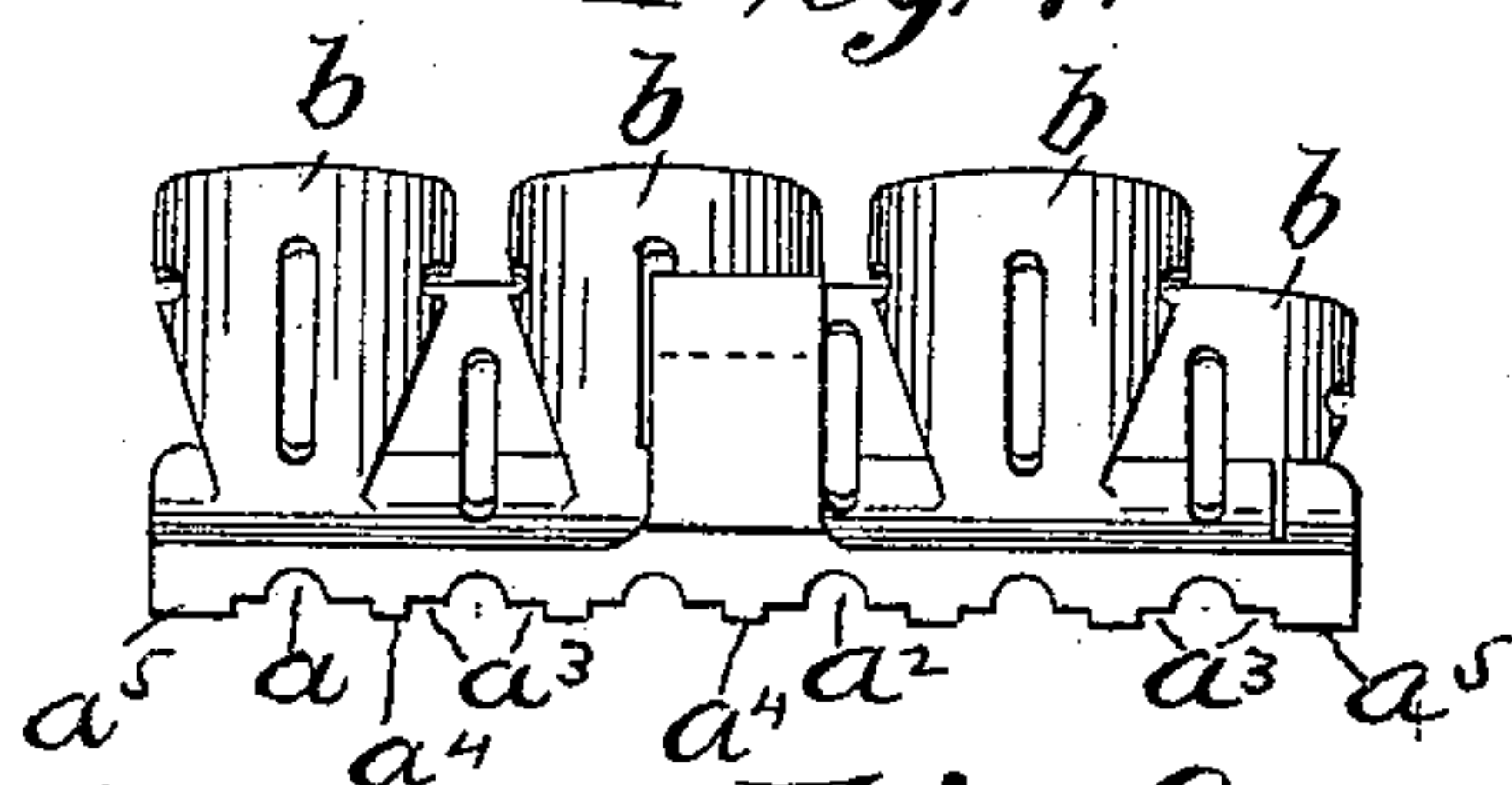


Fig. 9.

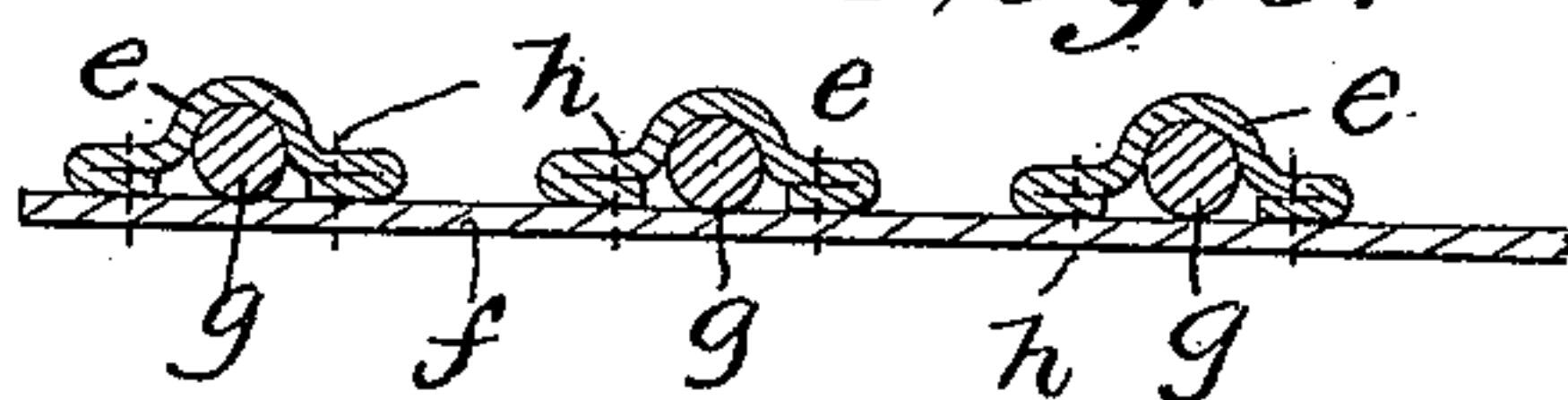


Fig. 7.

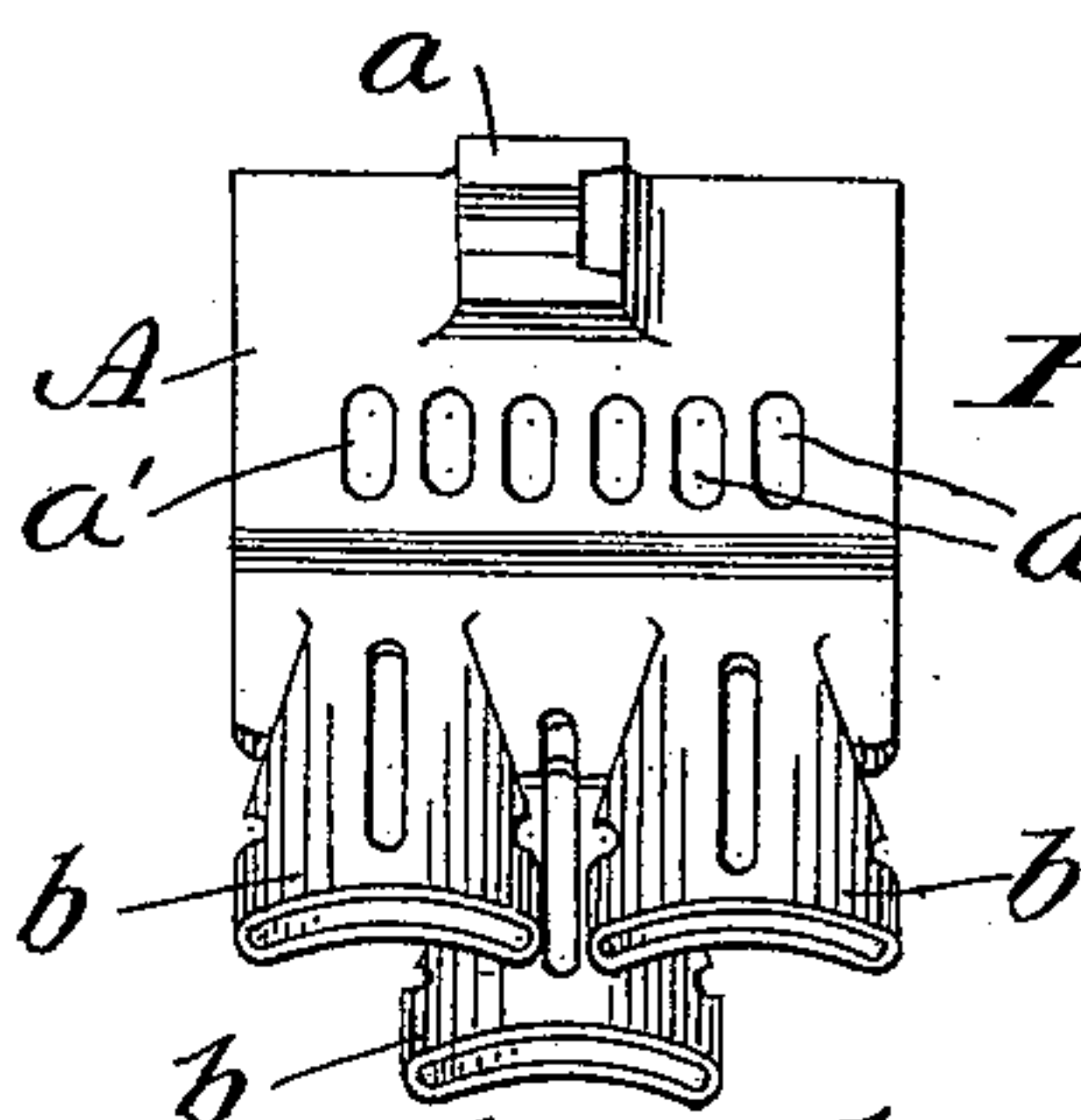
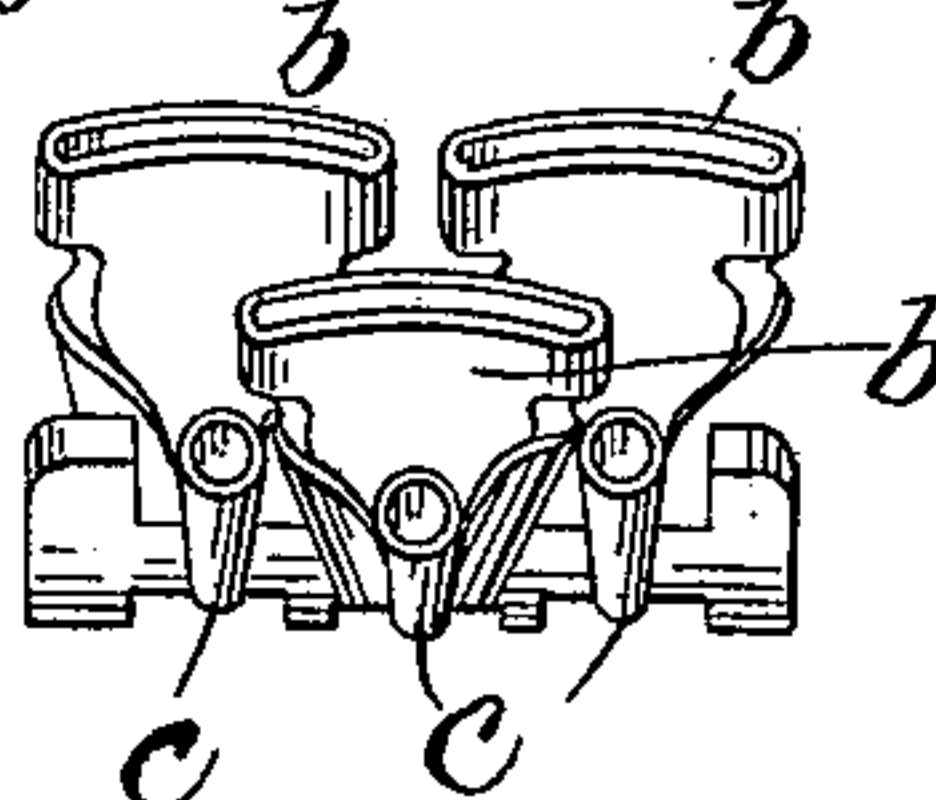


Fig. 8.



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# UNITED STATES PATENT OFFICE.

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## SEWING-MACHINE CORDER.

SPECIFICATION forming part of Letters Patent No. 619,877, dated February 21, 1899.

Application filed January 31, 1898. Serial No. 668,623. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN DOUGLAS, a citizen of the United States, residing at Elizabeth, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Sewing-Machine Corders, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention has for its object to provide a cording attachment for use with multiple-seam sewing-machines and by the use of which a plurality of cords, each centrally enfolded within a separate strip of material, may be  
15 guided to the needles of the machine in such a manner that the opposite edges of each strip may be turned under and each strip and cord be stitched down to a piece of underlying material by two rows of stitches.

20 The improved corder is intended more particularly for use in corset and other work in which the underlying or base material is to be provided with a series of corded overlays.

To this end the improved attachment comprises a plurality of rearwardly-tapering strip-folding guides, preferably made in the form of slightly-curved flattened tubes, each of which is provided with a centrally-arranged cord guide or tube, said guides being sustained in operative position in front of the  
30 needles by a suitable support, which will preferably be the presser-foot of the machine, and which presser-foot will be properly recessed in its bottom for the easy passage beneath it of the cords and folded strips.

In the accompanying drawings, Figures 1 and 2 are top and bottom views, respectively, of one form of the improved corder; and Figs. 3 and 4 front and rear views, respectively, of the same. Fig. 5 is a section on line 5 5, Fig. 1; and Fig. 6 a side view of the improved  
40 corder. Figs. 7 and 8 are top and front views, respectively, of a three-strip and three-cord corder; and Fig. 9 is an enlarged view illustrative of the work done with the improved corder.

A denotes a guide-support preferably made in the form of a wide presser-foot provided with a shank *a* for attachment to the presser-  
50 bar of a sewing-machine and with a series of

needle holes or slots *a'*. To the front or toe portion of the presser-foot A are attached a plurality or series of inclined rearwardly-tapering strip-folding guides *b*, preferably in the form of flattened tubes slightly curved  
55 transversely and each provided beneath with a centrally-arranged cord-guide *c*, said cord-guides being preferably soldered or otherwise suitably attached to the said strip-guides. The presser-foot is provided on its under side  
60 with cord-grooves *a*<sup>2</sup>, arranged in line with the cord-guides *c* and with strip-grooves *a*<sup>3</sup>, arranged in line with the forward or delivery ends of the strip-folding guides *b*, the needle-  
65 holes *a'* intersecting these strip-grooves *a*<sup>3</sup> and straddling the cord-grooves *a*<sup>2</sup>, while the ribs *a*<sup>4</sup> between the strip-grooves enable the presser-foot to bear properly on the work between the outer parts or end bearing-sur-  
70 faces *a*<sup>5</sup> of said foot. The cord-grooves *a*<sup>2</sup> are centrally located in the strip-grooves *a*<sup>3</sup> and are somewhat deeper than said strip-grooves.

In order to do close cording in which each cord is overlaid by a separate strip of material with under-folded edges secured by two  
75 rows of stitches, it is necessary to "stagger" the strip-guides or arrange them in different horizontal and vertical planes, so that the guides of one row alternate with or are partly between (in a vertical plane) the guides of  
80 the other row. The rearwardly - tapering strip-folding guides are of well-known construction and serve to fold under the opposite edges of the strips *e*, passed through them, these folded-in edges being sewed down to the  
85 backing-piece of material *f* on each side of the cords *g* by two rows of stitches *h*.

It will be understood that any desired plural number of the strip-folding guides *b* and cord-guides *c* may be employed, according to  
90 the number of needles of the machine with which the attachment is to be used. Thus the form of attachment shown by Figs. 1, 2, 3, 4, and 5 and having six each of these guides is intended for use with a twelve-needle sew-  
95 ing-machine, while the form of the invention shown by Figs. 7 and 8 and having three each of these guides is intended for use in a six-needle machine.

Having thus described my invention, I 106



claim and desire to secure by Letters Patent—

1. A sewing-machine cording attachment comprising the combination with a suitable support, of a plurality of rearwardly-tapering strip-folding guides, each of which is provided with a centrally-arranged cord-guide, said strip-folding guides being "staggered" or arranged in different vertical and horizontal planes, so that those in one horizontal plane will come between or will alternate vertically with those in another horizontal plane.

2. A sewing-machine presser-foot provided with a series of needle-holes and having attached to its front or toe portion a plurality of inclined, rearwardly-tapering, strip-folding guides, each of which is provided with a centrally-arranged cord-guide, said presser-foot having in its bottom a series of cord-grooves arranged in line with said cord-guides.

3. A sewing-machine presser-foot provided with a series of needle-holes and having attached to its front or toe portion a plurality of inclined rearwardly-tapering strip-folding guides each of which is provided with a centrally-arranged cord-guide, said strip-folding guides being "staggered" or arranged in different vertical and horizontal planes, so that those in one horizontal plane will come between or will alternate vertically with those in another horizontal plane.

4. A sewing-machine presser-foot A the bottom of which is provided with a series of cord-grooves  $a^2$  and with a series of strip-grooves  $a^3$  in which said cord-grooves are centrally located, said foot having also a series of needle-holes intersecting said cord-grooves, and the front or toe portion of said foot being provided with a plurality of inclined, rearwardly-tapering strip-folding guides  $b$  each of which is furnished with a centrally-placed cord-guide  $c$ .

5. A sewing-machine presser-foot A the bottom of which is provided with a series of cord-grooves  $a^2$  and with a series of strip-grooves  $a^3$  in which said cord-grooves are centrally located, said foot having also a series of needle-holes intersecting said cord-grooves, and the front or toe portion of said foot being provided with a plurality of inclined, rearwardly-tapering strip-folding guides  $b$  each of which is furnished with a centrally-placed cord-guide  $c$ , said strip-folding guides being staggered or arranged in two different horizontal planes or rows with the strip-guides of one row alternated with or placed partly between the strip-guides of the other row.

In testimony whereof I affix my signature in the presence of two witnesses.

JOHN DOUGLAS.

Witnesses:

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HAROLD W. BROWN.