

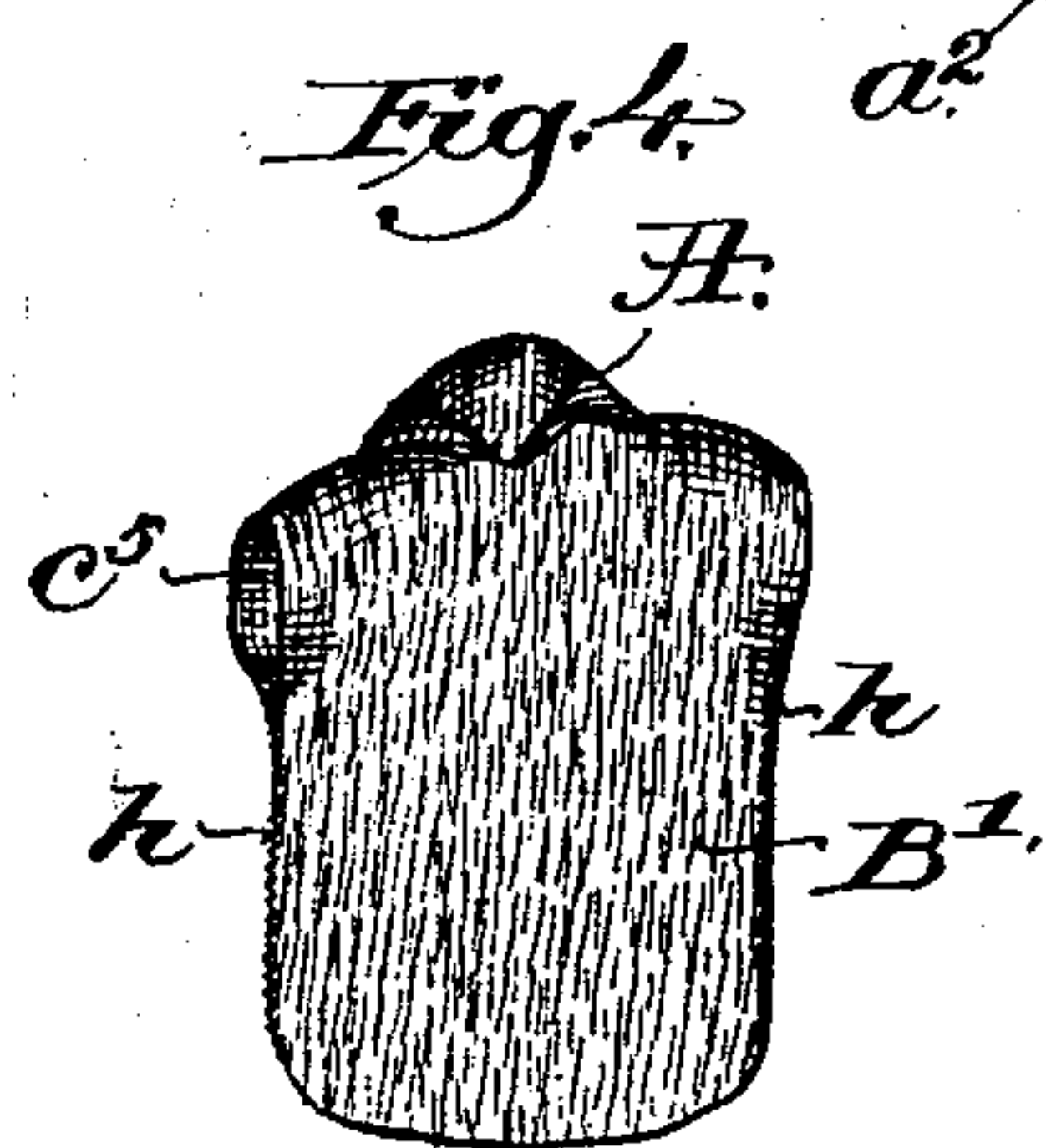
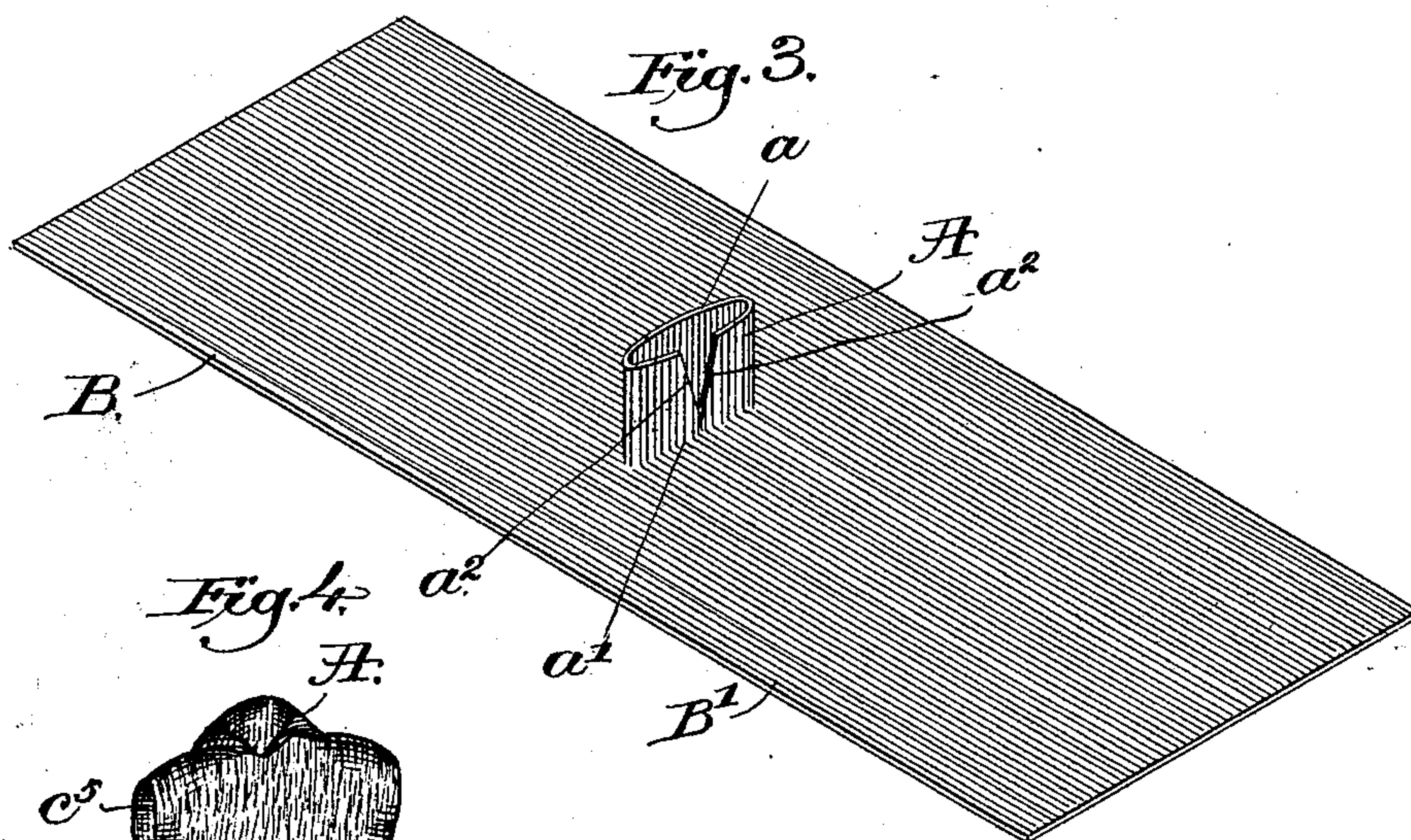
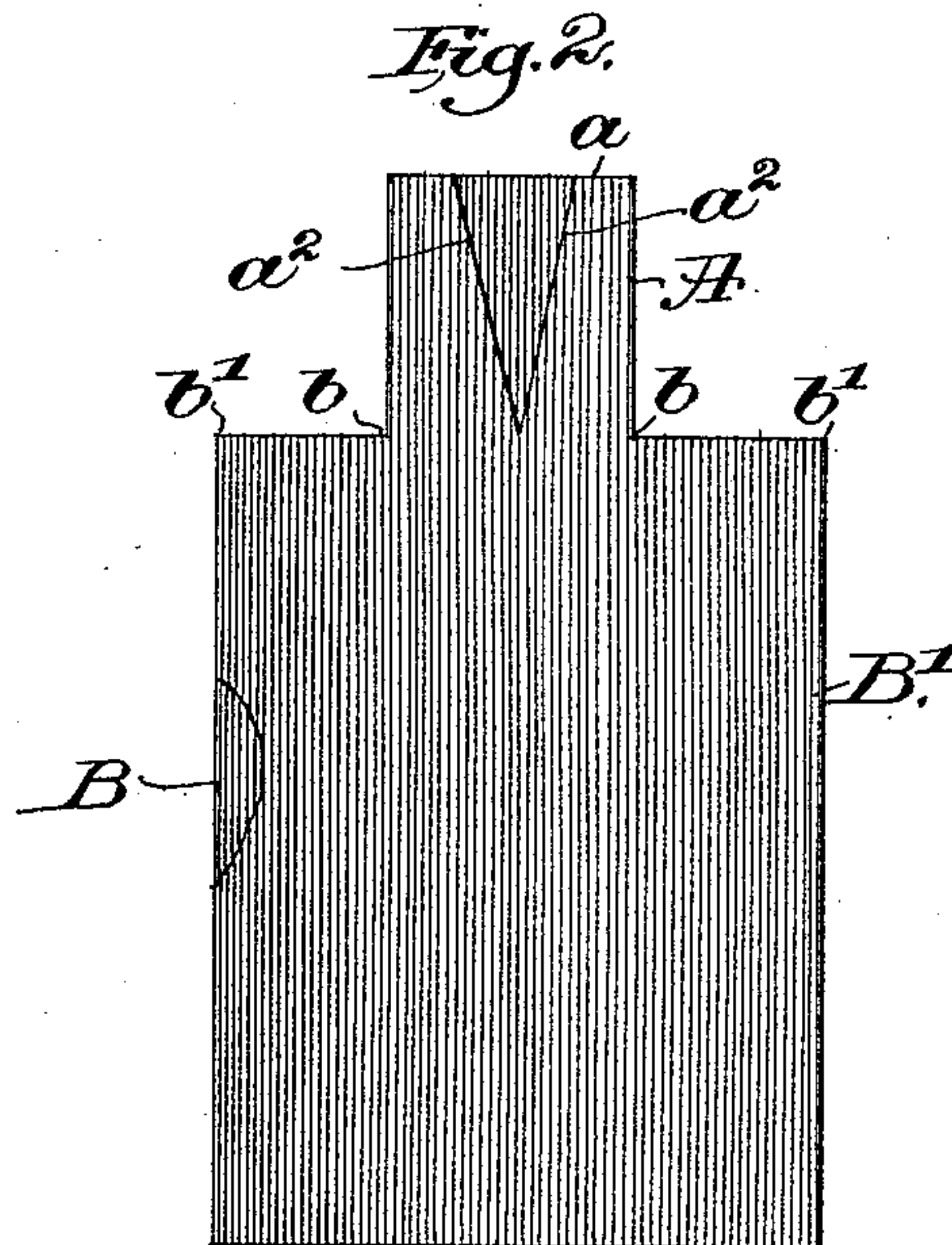
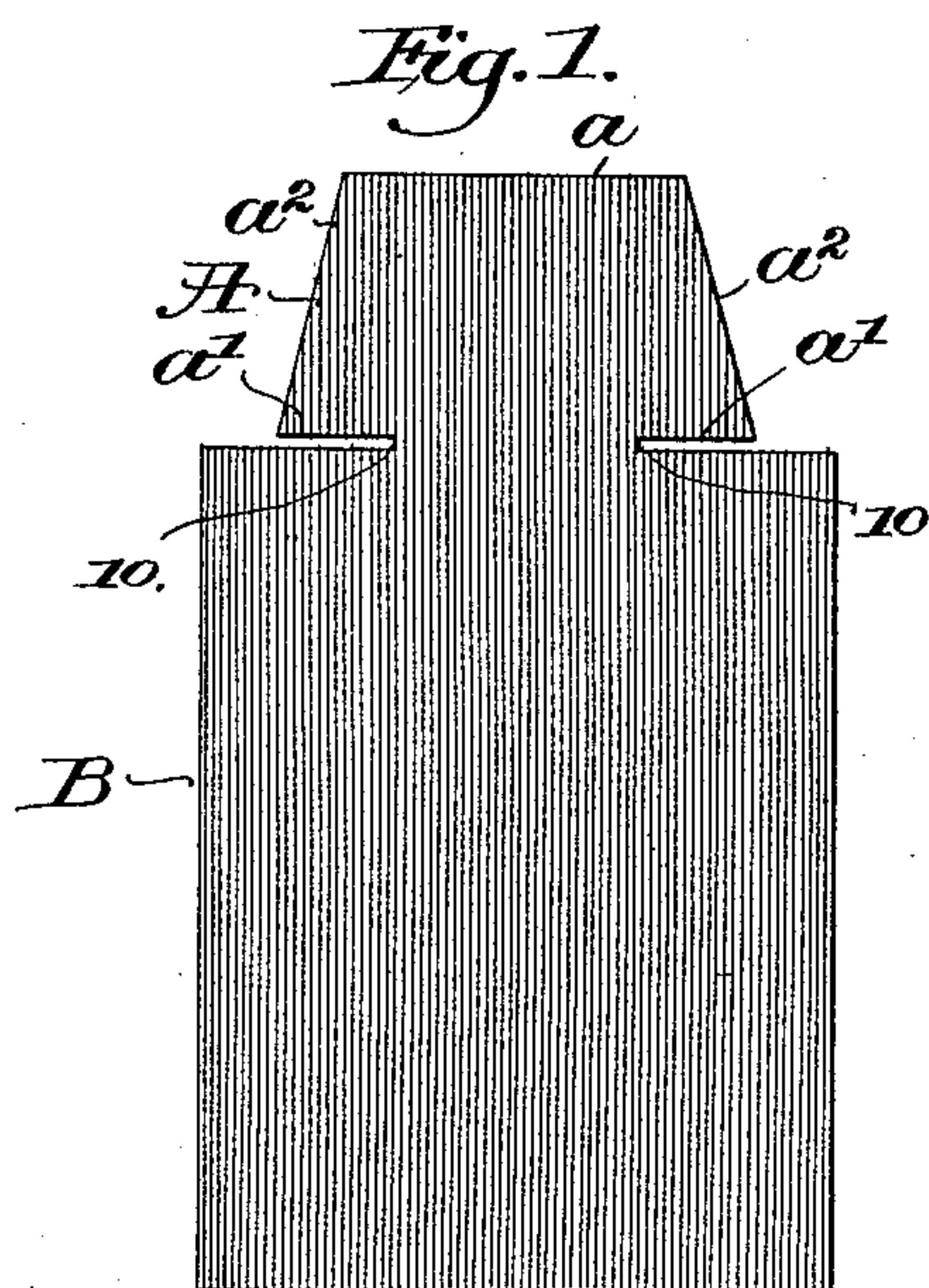
(No Model.)

W. A. O'BRIEN.

SHIRT AND METHOD OF MANUFACTURING SAME.

No. 500,270.

Patented June 27, 1893.



Witnesses.  
Edward T. Allen  
Louis N. Howell

Inventor:  
Walter A. O'Brien  
by Crosby & Gregory attys.



# UNITED STATES PATENT OFFICE.

WALTER A. O'BRIEN, OF BOSTON, MASSACHUSETTS.

## SHIRT AND METHOD OF MANUFACTURING SAME.

SPECIFICATION forming part of Letters Patent No. 500,270, dated June 27, 1893.

Application filed March 20, 1893. Serial No. 466,938. (No model.)

*To all whom it may concern:*

Be it known that I, WALTER A. O'BRIEN, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Shirts and Methods of Manufacturing the Same, of which the following description, in connection with the accompanying drawings, is a specification, like letters and figures on the drawings representing like parts.

This invention has for its object the production of a novel knitted shirt by a novel method, said shirt having a collar knitted thereto, and open in front to be folded over or down to resemble a so-called "sailor-collar."

Prior to my invention, knitted garments of the class designated as "sweaters" have had long collars made tubular by a seam or seams, the collars being folded or doubled in their length. I have aimed to improve this class of shirt and to adapt it for more extended use, and this I have done by making the collar open in front.

Figure 1, shows the collar portion of my improved garment, together with the back of the shirt, they being made before the front of the shirt. Fig. 2, shows the collar portion folded together and with the front of the shirt knitted to it. Fig. 3, shows the collar united to the front and back the latter not yet having been united; and Fig. 4, shows the parts shown in Fig. 3 brought together into shirt form with the collar turned over.

In the manufacture of my improved knitted shirt, I first set-up upon a part of the needles of a knitting machine,—preferably a machine of the so-called Lamb class, it having two rows of inclined needles adapted in their knitting movements to cross each other,—a sufficient number of loops for the production of a piece of knitted web A, see Fig. 1, of suitable length for the collar of the shirt to be produced, the knitting being commenced at the edge  $a$ , and ending at  $a'$ , where a part, say substantially one-fourth, the loops at each end are run off. The neck so produced has two selvage edges  $a^2$ ,  $a^2$ , and a portion of the loops between the parts 10—10 remain on the needles. In this condition the knitter again sets-up loops on a sufficient number of needles at the right and left of the point 10, to form the shoulders for the back B of the shirt, and starts the machine, supplying yarn to such needles and

also to the needles between the points 10—10, thus knitting not only on the needles on which the loops were so set-up but also on the needles holding the collar from the points 10—10, the knitting being continued until the rear part or back B of the shirt is of the proper length, when the back will be run off the needles. The back half of the shirt having been knitted, the collar is then folded in such direction as to bring the two selvage edges  $a^2$ ,  $a^2$  substantially together, or nearly so, to thus constitute a neck, as in Fig. 2, and then the loops along the edge  $a'$ , previously cast off as stated before knitting the back B of the body, are picked upon the needles of the knitting machine together with the loops from  $b$  to  $b'$  of the shoulder part of the back. This done, all the needles referred to are again supplied with thread and the knitting is resumed until a piece of fabric B' has been knitted as an extension of the front of the collar A, the portion B' so produced constituting the front half of the shirt, it being of any desired or suitable length.

Fig. 3, shows the front and back knitted as flat straight webs upon the lower end of the collar, the latter being open in front, as at  $g$ .

To complete the shirt, the back B and the front B', will be brought together and the two side edges of the front will be stitched to the two side edges of the back, as represented at  $h$ ,  $h$ , Fig. 4, leaving, however, suitable openings, as  $c^5$ , for the arm holes, and to these openings may be attached in any suitable manner suitable sleeves if desired.

In use, the collar A may be turned back, down and over, as represented in Fig. 4, so that the collar presents the appearance of a so-called "sailor collar."

The garment described and made as set forth, is well adapted for use by ladies engaged in athletic work, and is found to be very desirable for use of mariners and seafaring men where a regulation turn-down collar is considered essential.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A knitted garment composed of a front and back and having a long collar open in front and knitted to the back and to the front of the shirt, the collar having selvage edges



and being adapted to be turned over and laid down as a sailor collar, substantially as described.

2. In the method of knitting shirts, the following steps, viz:—knitting a collar; running  
5 off a portion of the loops from each corner of the collar toward the back of the collar; supplying yarn to the needles from which the collar loops were so run off and as many more  
10 as are necessary and to the needles yet holding a part of the collar; and knitting on said needles and to the back of the collar the back of the shirt; then picking onto the needles  
15 the loops of the collar which were previously run off as stated, and also the loops at the shoulder part of the back of the shirt; sup-

plying all said needles with yarn, and knitting on the said needles to the shoulder tops of the back and to the loops of the front of the collar, the front of the shirt; continuing the knitting until the front is of the proper length, and thereafter uniting the side edges of the front and back together, leaving suitable arm holes, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WALTER A. O'BRIEN.

Witnesses:

GEO. W. GREGORY,  
M. J. SHERIDAN.