

(No Model.)

H. P. FIKE.
CHART FOR DRAFTING GARMENTS.

No. 409,184.

Patented Aug. 20, 1889.

Fig. 1.

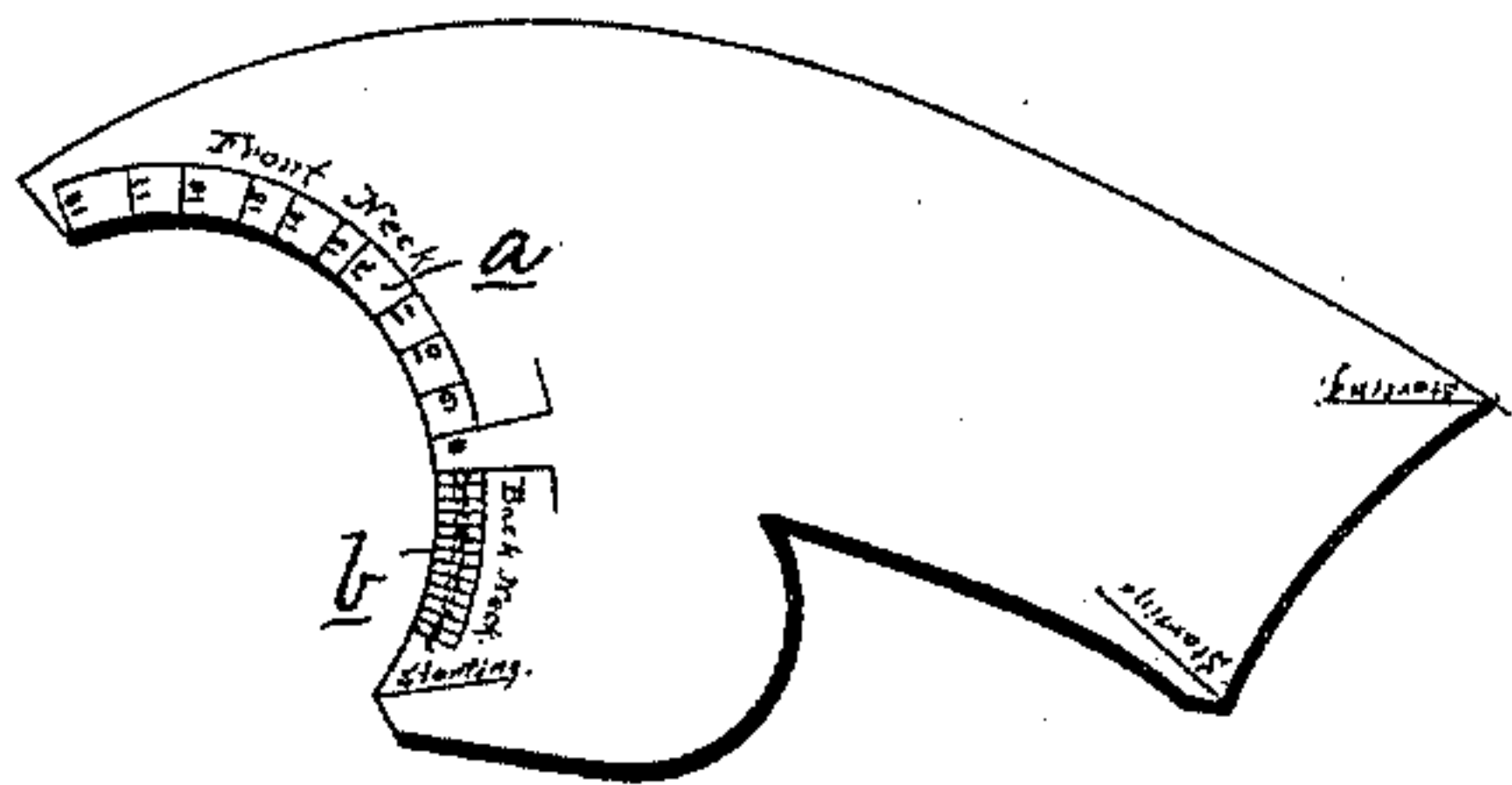


Fig. 2.

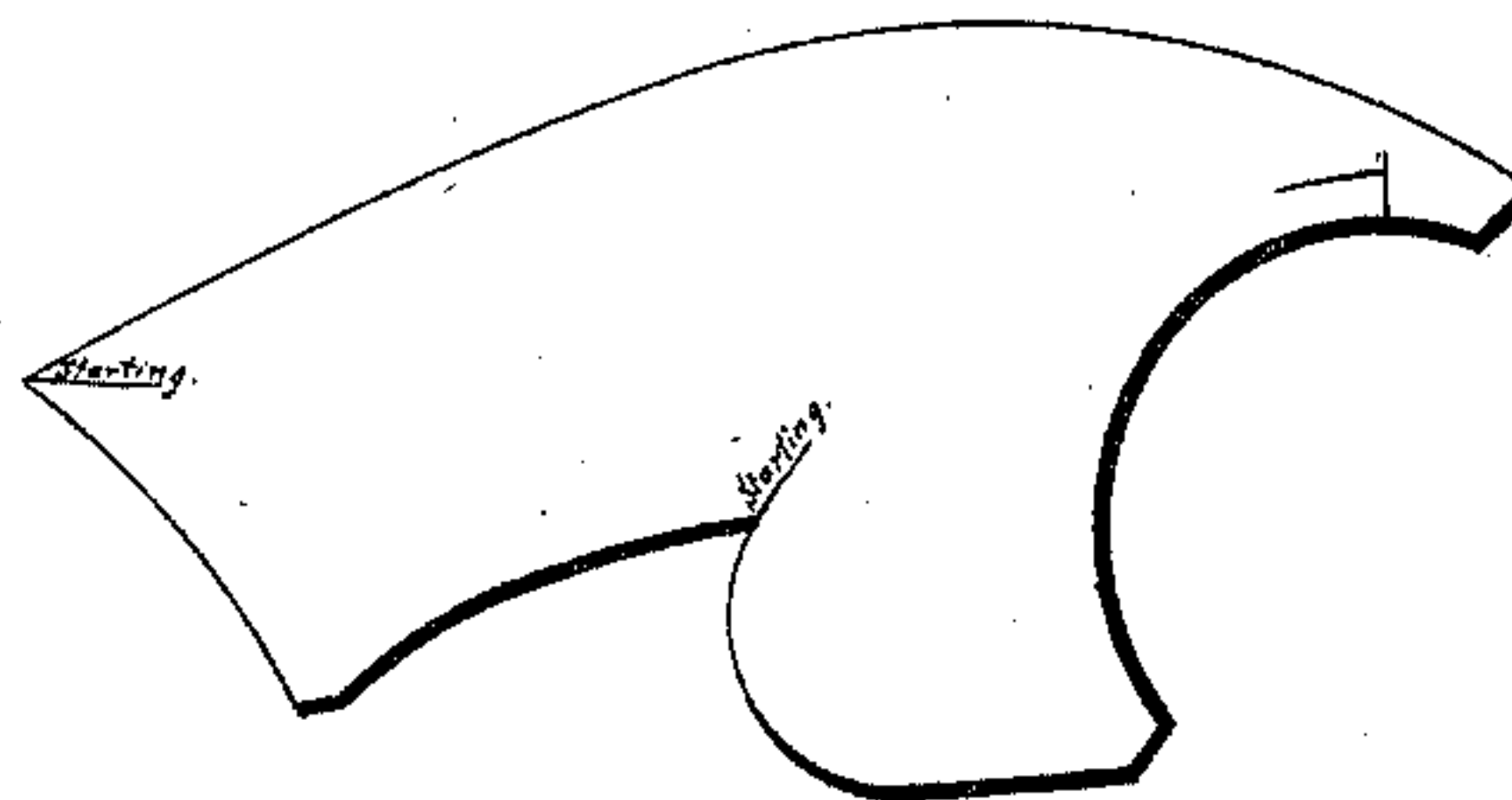


Fig. 3.

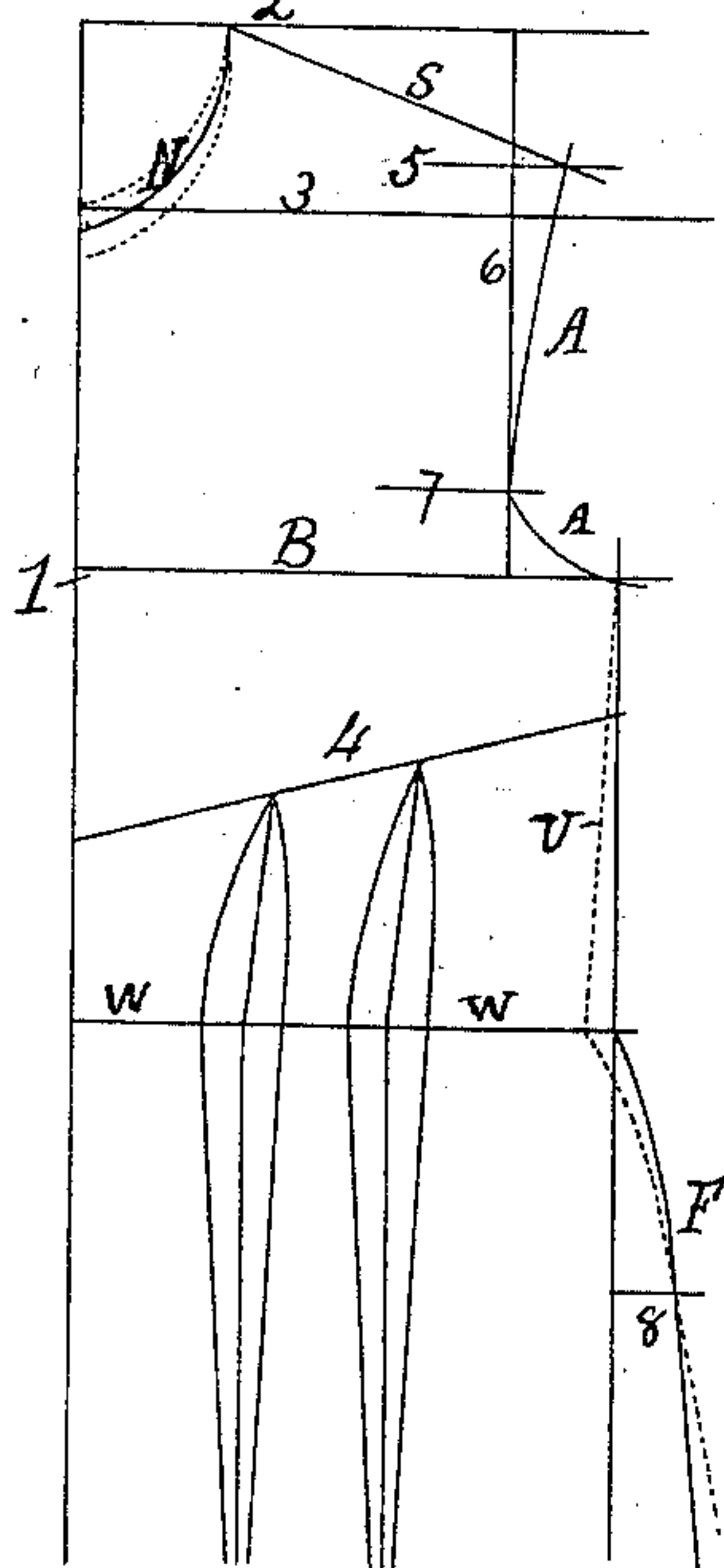


Fig. 4.

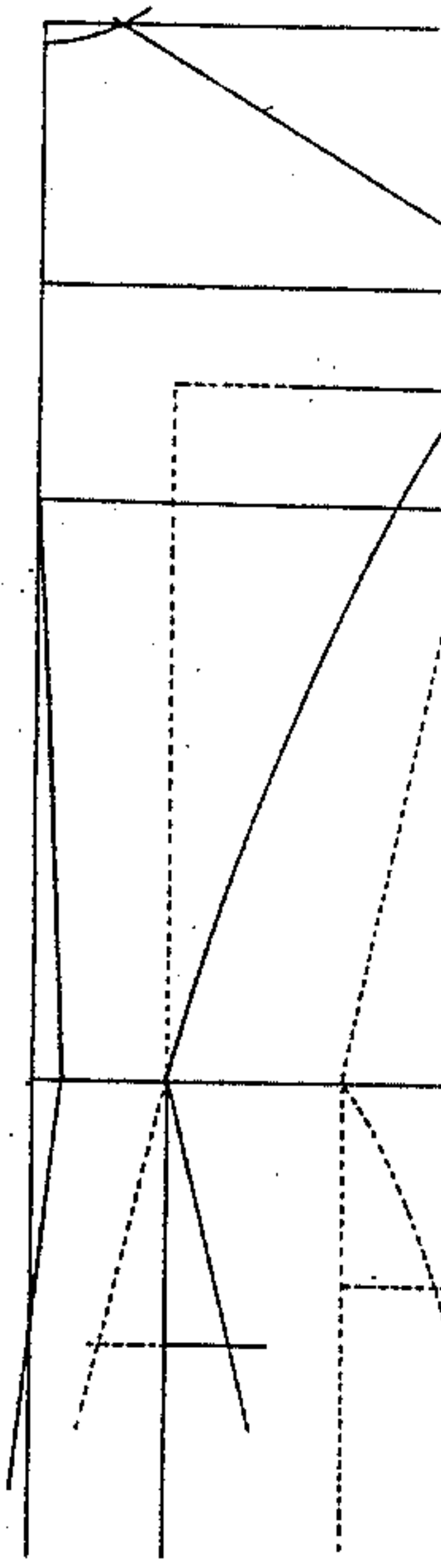


Fig. 5.

Fig. 6.

Fig. 7.

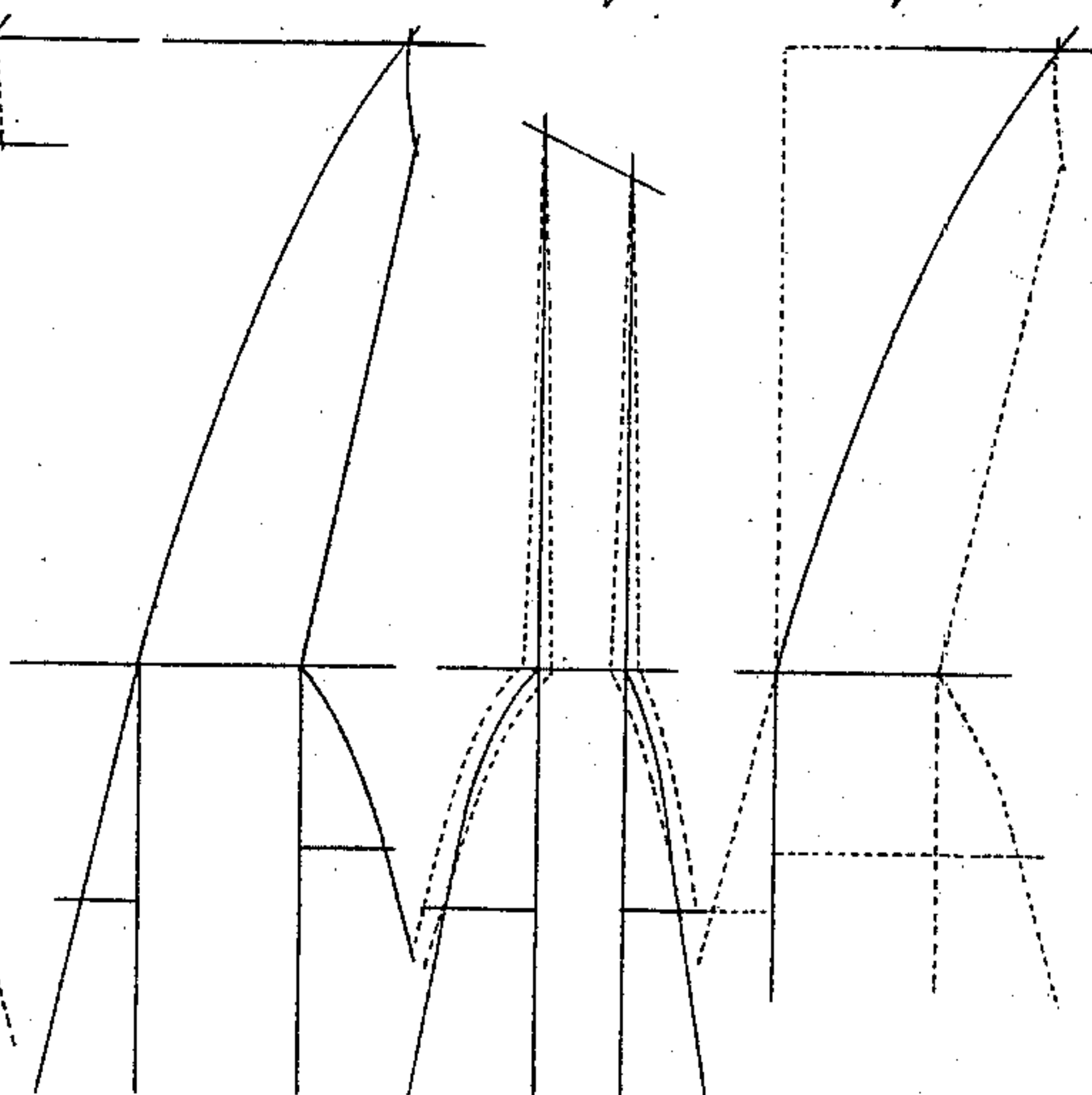


Fig. 8.

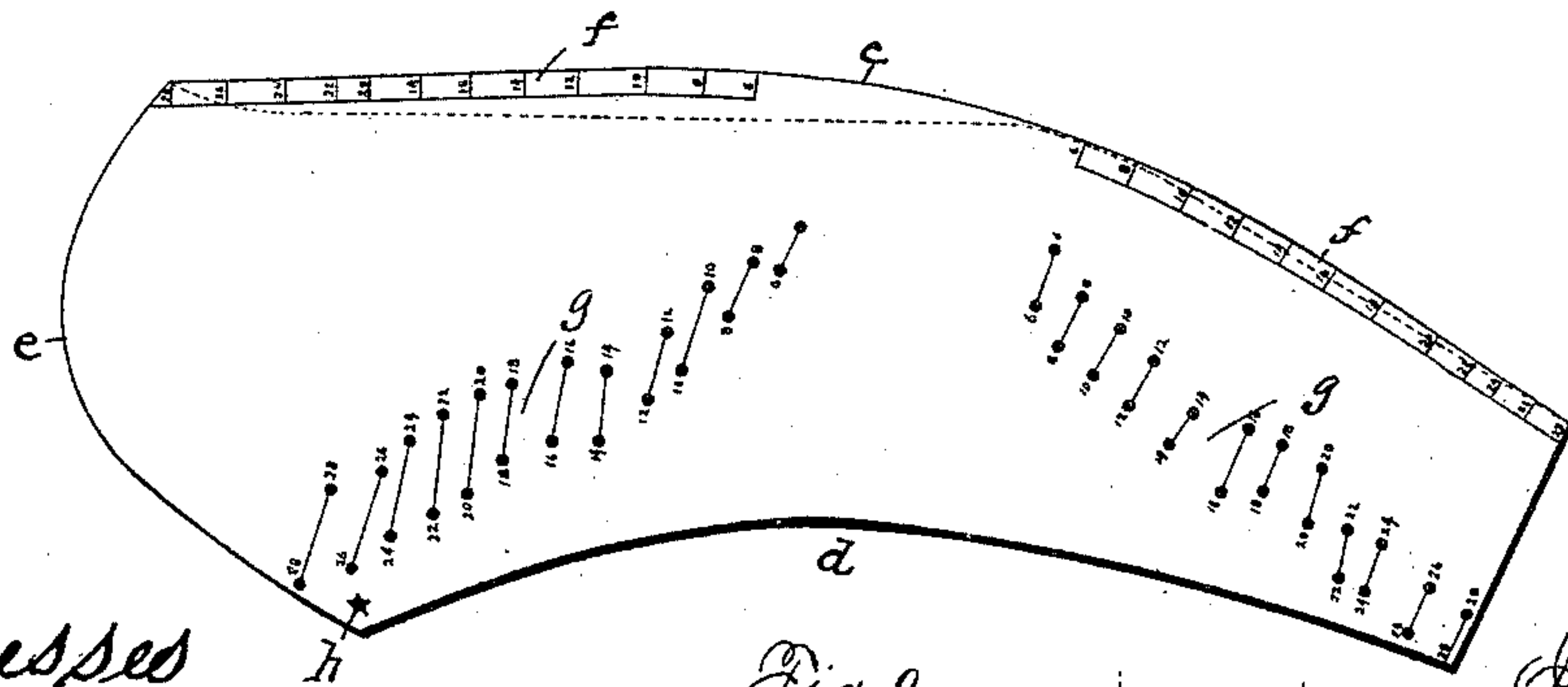


Fig. 9.



Witnesses
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UNITED STATES PATENT OFFICE.

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CHART FOR DRAFTING GARMENTS.

SPECIFICATION forming part of Letters Patent No. 409,184, dated August 20, 1889.

Application filed June 29, 1889. Serial No. 316,036. (No model.)

To all whom it may concern:

Be it known that I, HENRY P. FIKE, a citizen of the United States, residing at Chili, in the county of Miami and State of Indiana, have
5 invented certain new and useful Improvements in Devices for Use in Dress-Cutting; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings,
10 making a part of this specification, and to the letters and figures of reference marked thereon.

This invention relates to certain new and useful improvements in the peculiar construction of the chart or rule, as hereinafter more
15 fully described, and then pointed out in the appended claims, reference being had to the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and which will aid materially in the understanding of my invention.

In the said drawings, Figure 1 is a view of what I term a "curve shape." Fig. 2 is a view of the reverse side thereof. Fig. 3 shows a
25 pattern of a basque-front. Fig. 4 shows a pattern of a French back. Fig. 5 shows a pattern of a side body. Fig. 6 shows a pattern of an under-arm gore. Fig. 7 shows a pattern of the side body indicated by dotted lines in Fig.
30 4, showing how it may be drafted separately from the back. Fig. 8 shows the sleeve-chart. Fig. 9 represents a portion of a square.

The curve shape shown in Figs. 1 and 2 has designated thereon the points of starting
35 and a measure for the front neck, as shown at *a*, and a measure for the back neck, as shown at *b*.

The sleeve-chart shown in Fig. 8 is formed with a long curve *c* and a shorter curve *d*, with
40 a top curve *e*. The long curve is graduated, as shown at *f*, with numbers corresponding upon each side of the center, and with holes *g* numbered to correspond with the numbers around the long curve. A star *h* is also pro-
45 vided on this sleeve-chart.

To lay out a pattern or plan for a sleeve, I proceed as follows: Draw a line around the long curve for outside seam for both upper
50 and under part of sleeve to the numbers corresponding with the length of the sleeve-measure at each end of the chart. The holes

nearer the edge of the short curve give the width of the upper part of the sleeve, and the holes nearer the center give the width of the under part of the sleeve, and are numbered
55 the same as on the long curve. Make a dot at each hole corresponding to the length of the sleeve for the inside seam of the upper and under part of the sleeve. Bring the short curve of the chart to the dots marked, placing
60 the point of the chart at the star *h* on the dot at the top of sleeve and draw lines for the inside seam along the short curve to the dots at the lower end of the sleeve. Draw a line
65 for the top of the upper part of the sleeve along the top curve of the chart, dividing equally the distance from the points of the long and short curves. For the top of the under part of the sleeve, place the point of
70 the chart at the star on the dot at the top of the line for outside seam and draw a line along the top curve of chart through the dots at the top of the line for inside seam.

The numbers on the sleeve-chart are all even numbers. If the measure should be an
75 odd number—say, 23—draw a line from 22 at the lower end of the chart to 24 at the top, and so in case of any odd number.

For the purpose of this description we will suppose the measure to be as follows: neck-
80 measure, eleven inches; shoulder-measure, five and one-half inches; arm-size measure, eleven inches; bust-measure, thirty-three inches; waist-measure, twenty-three inches; front measure, twelve inches; length-of-back
85 measure, fourteen inches; under-arm measure, seven inches; width-of-back measure, thirteen and one-half inches; sleeve-measure, twenty-two inches.

To draft for front polonaise and basque, 90 draw the line 1; then draw line 3 at right angles thereto two and three-fourths inches from the line 2; then draw line B square, or at right angles to line 1 and distant from line 3 one-half the length of the arm-size measure; 95 then draw the line W at right angles to the line 1, distant from line B the length of the under-arm measure less one-half inch. The length of lines *b* and W are one-quarter the bust measure. Draw line U, crossing lines B
100 and W, at right angles and one-quarter the bust-measure distant from the line 1. Meas-

ure down from line 2 on line 1 two inches for
 a seven-inch neck-measure, and every addi-
 tional inch in neck size one-quarter inch more.
 A neck-size therefore of nine inches requires
 5 two and one-half inches. Place starting for
 front-neck curve on the curve shown in Figs.
 1 and 2 at given point on line 1, and bring
 the number corresponding with neck-size
 measure on line 2 and draw the line N. Ap-
 10 ply length of front measure on the line 1 from
 the line N to the line W. If front measure
 comes above or below the given point of line
 N on line 1, said point may be raised or low-
 ered, as indicated by dotted lines in Fig. 3,
 15 never changing, however, the given point on
 the line 2. Place the junction of the square at
 the intersection of the lines N and 2, bringing
 the seven-and-one-half-inch mark on the line 3,
 and draw the line S the exact length of the
 20 shoulder-measure. Draw the line 5 parallel
 with the line 3, so as to cross line S at the point
 of shoulder-measure. Then draw the line 6, at
 right angles to the line 2, to the line B, so that
 it will cross the line 5 three-fourths of an inch
 25 from the point of shoulder. Draw the line 7
 parallel with the line B, so that it will cross line
 6 one and one-fourth inch from the line B.
 Place the starting for the front arm-size on
 the long curve at the intersection of the lines
 30 7 and 6, and draw the line A to a point of
 shoulder at the intersection of the lines 5 and
 S. Place the 17 neck-mark on the neck-curve
 at the intersection of the lines 6 and 7 and
 draw the line A below the line 7 through the
 35 intersection of the lines B and U. Draw the
 line 4 so that on line 1 it will be four and on
 line U two inches from the line B. On the
 line W it is two inches from the line 1 to the
 first dart. Allow one inch between darts.

Find width of darts by calculation, and point 40
 off center of each dart on the line W. The
 center lines of darts below the line W run
 parallel with the line 1. The outer lines of
 darts are drawn so as to cross center lines
 eleven inches below the line W. The point 45
 of each dart on the line 4 is one-half inch
 farther from the line 1 than the center of
 each is on the line W. Continue center lines
 from the line W to the point of each dart on
 the line 4. Draw outer lines from the line W 50
 to point of darts on the line 4 over curve end
 of square, bringing the end of the curve ex-
 actly on the point of dart. Measure down
 line U from line W just four inches and draw
 line 8 at right angles from the line U. Place 55
 the point of curve end of square at inter-
 section of the lines U and W and draw line
 F so as to cross line 8 one inch from the line U.
 It is believed that it is not necessary to de-
 scribe the manner of drafting the patterns 60
 shown in the remaining figures. The princi-
 ple is the same.

What I claim as new is—

As an improved dress-cutting chart or rule,
 the chart or rule herein described, provided 65
 with a curved front-neck measure *a*, a curved
 back-neck measure *b*, forming a continuation
 of the curve of the part *a*, and marks indi-
 cating the starting-points upon opposite sides
 of said rule or chart, substantially as shown 70
 and described.

In testimony that I claim the above I have
 hereunto subscribed my name in the presence
 of two witnesses.

HENRY P. FIKE.

Witnesses:

HENRY C. STRONG,
 NOTT N. ANTRIM.