

(No Model.)

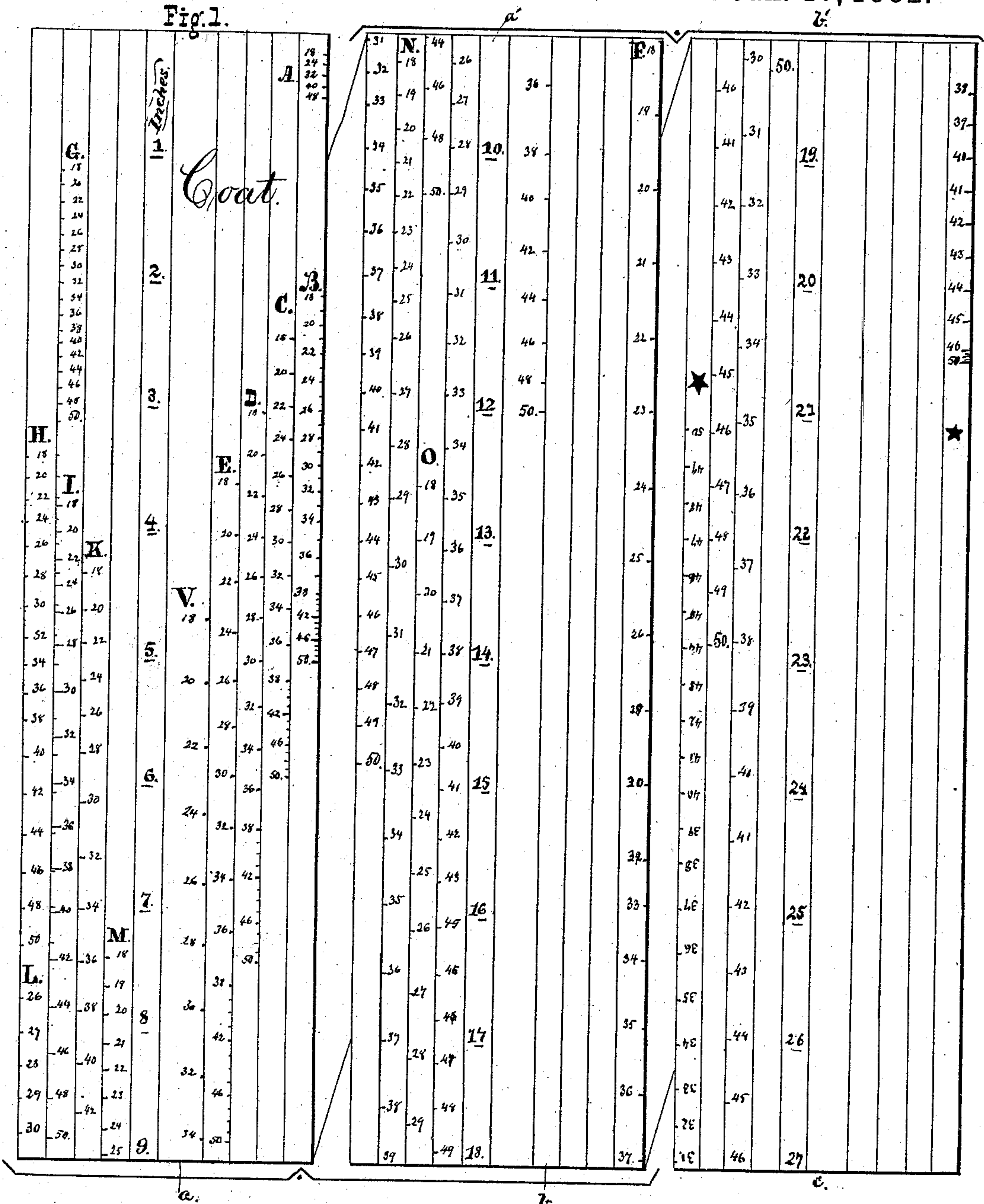
5 Sheets—Sheet 1.

E. J. LINCK.

CHART FOR DRAFTING GARMENTS.

No. 252,388.

Patented Jan. 17, 1882.



WITNESSES.

J. A. Barclay  
J. N. Pisteb.

Sheet A.

INVENTOR

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BY

A. W. Williams.

ATTORNEY.

(No Model.)

5 Sheets—Sheet 2.

E. J. LINCK.

# CHART FOR DRAFTING GARMENTS.

No. 252,388.

Patented Jan. 17, 1882.

c.										d.									
Coat.										Pants.									
46	47	48	49	50	51	52	53	54	55	16	17	18	19	20	21	22	23	24	25
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WITNESSES.

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**Sheet B:**

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(No Model.)

5 Sheets—Sheet 3.

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## CHART FOR DRAFTING GARMENTS.

No. 252,388.

Patented Jan. 17, 1882.

[illegible]

WITNESSES:

Sheet C.

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(No Model.)

5 Sheets—Sheet 4.

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CHART FOR DRAFTING GARMENTS.

No. 252,388.

Patented Jan. 17, 1882.

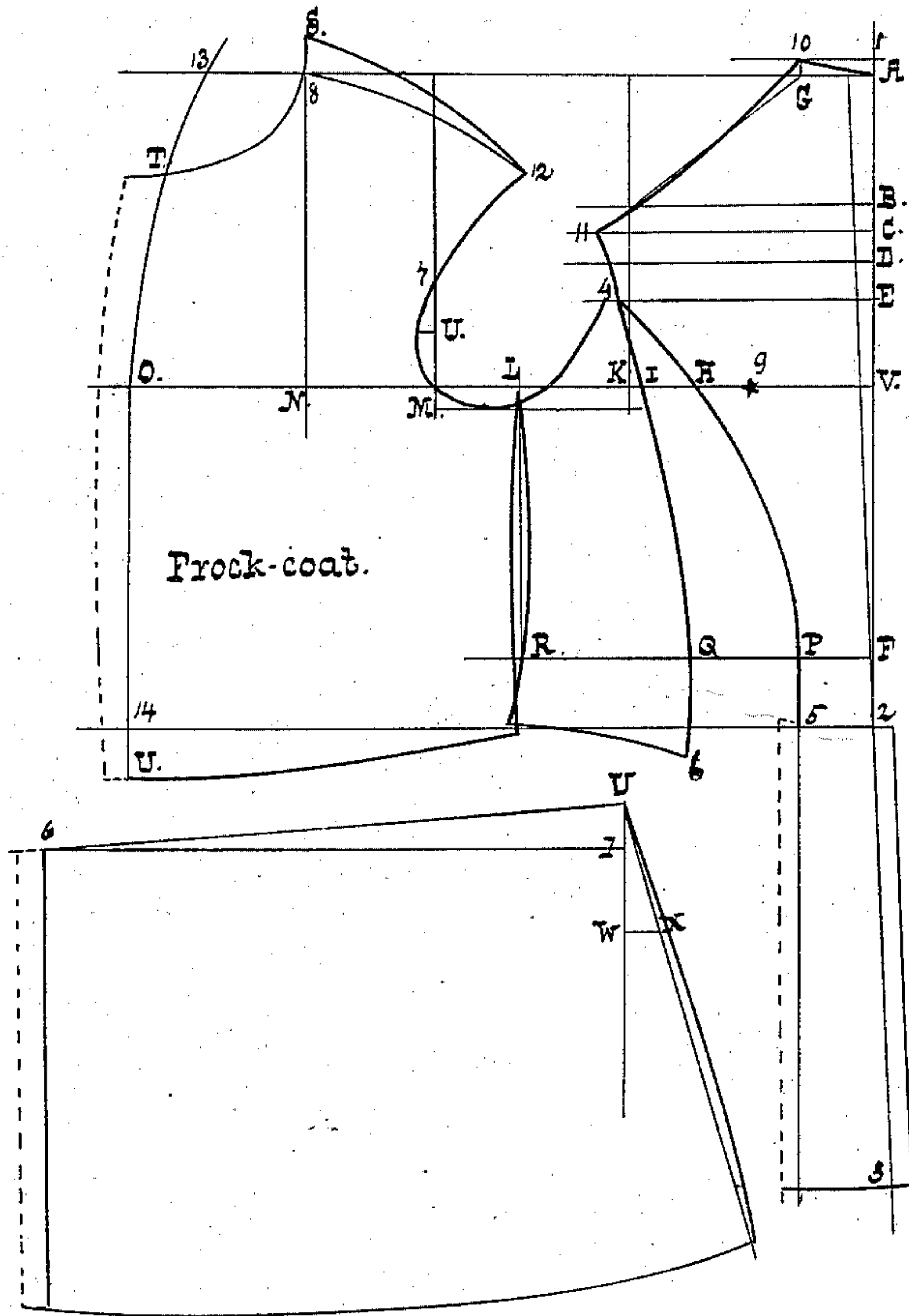


Fig. 2.

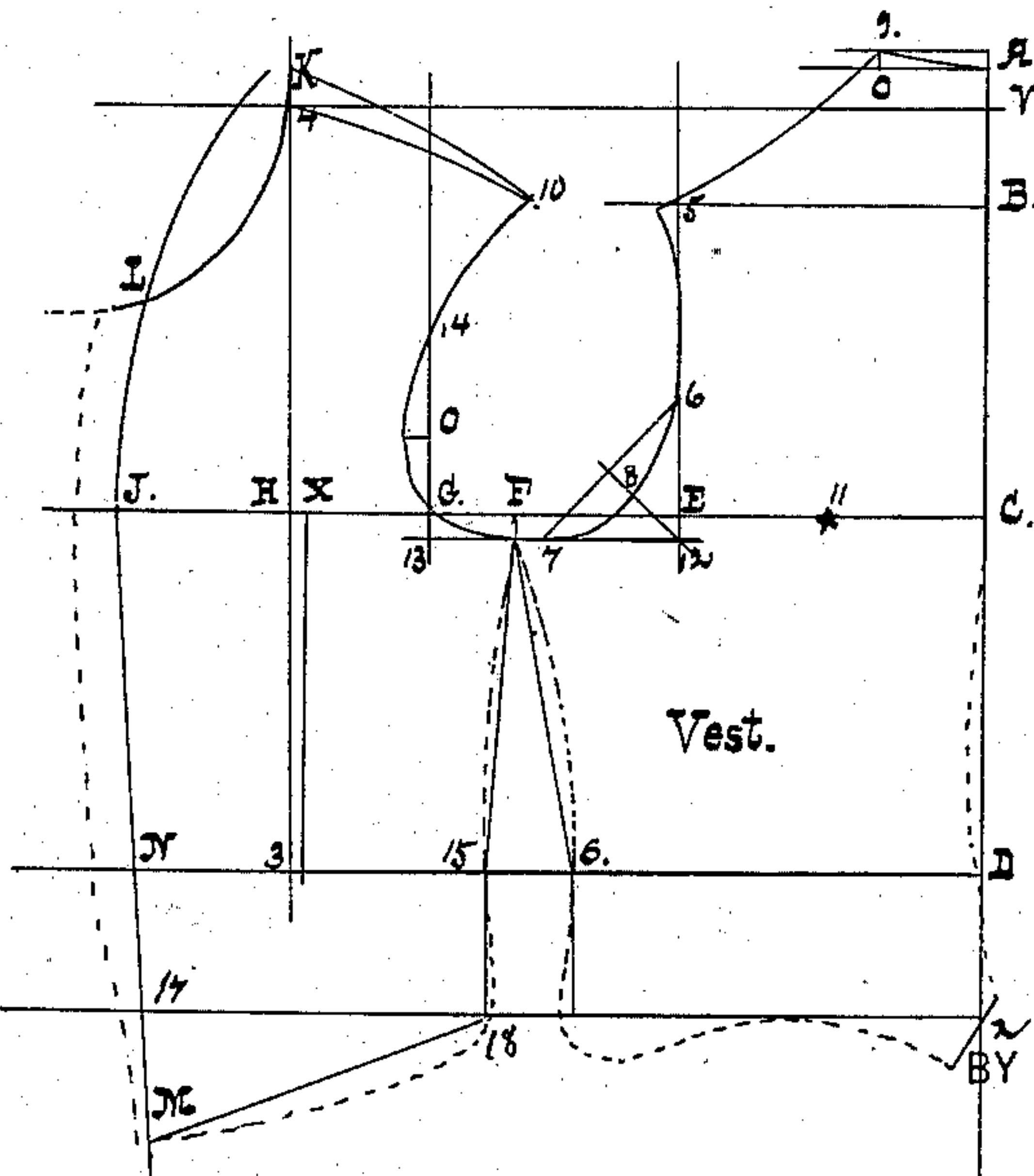


Fig. 3.

WITNESSES.

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(No Model.)

5 Sheets—Sheet 5.

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CHART FOR DRAFTING GARMENTS.

No. 252,388.

Patented Jan. 17, 1882.

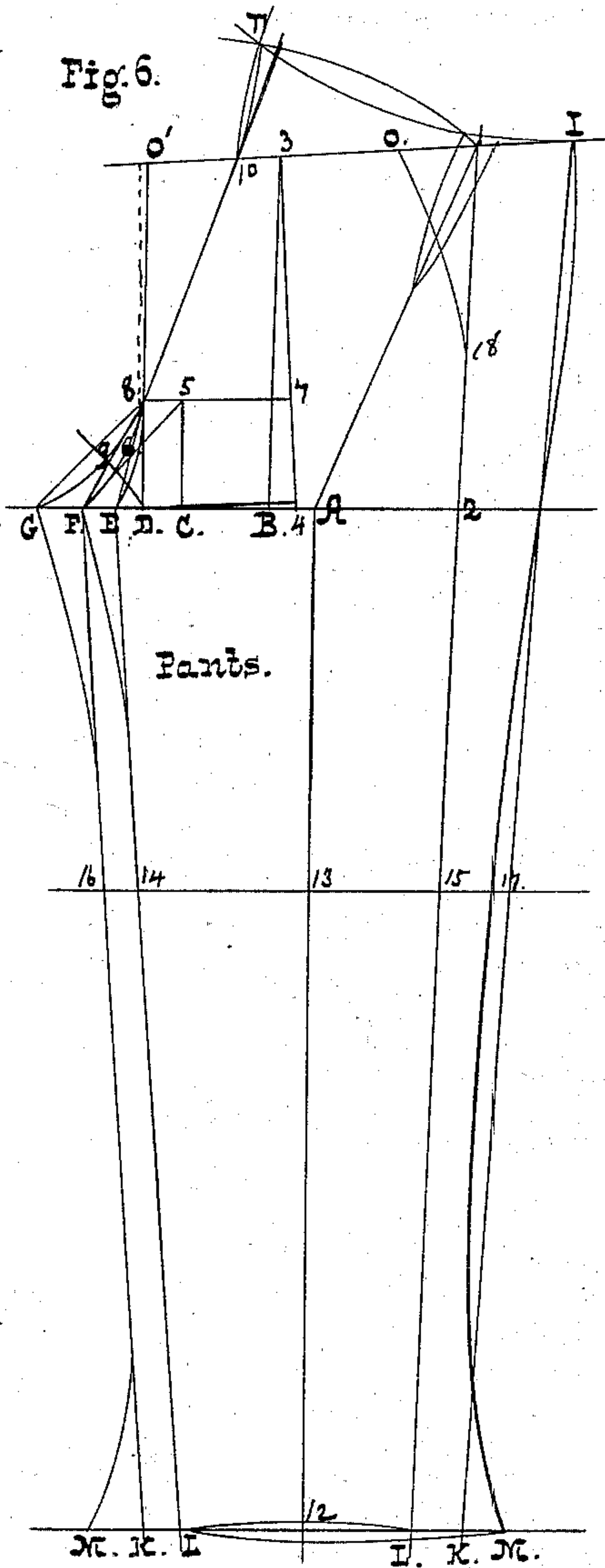
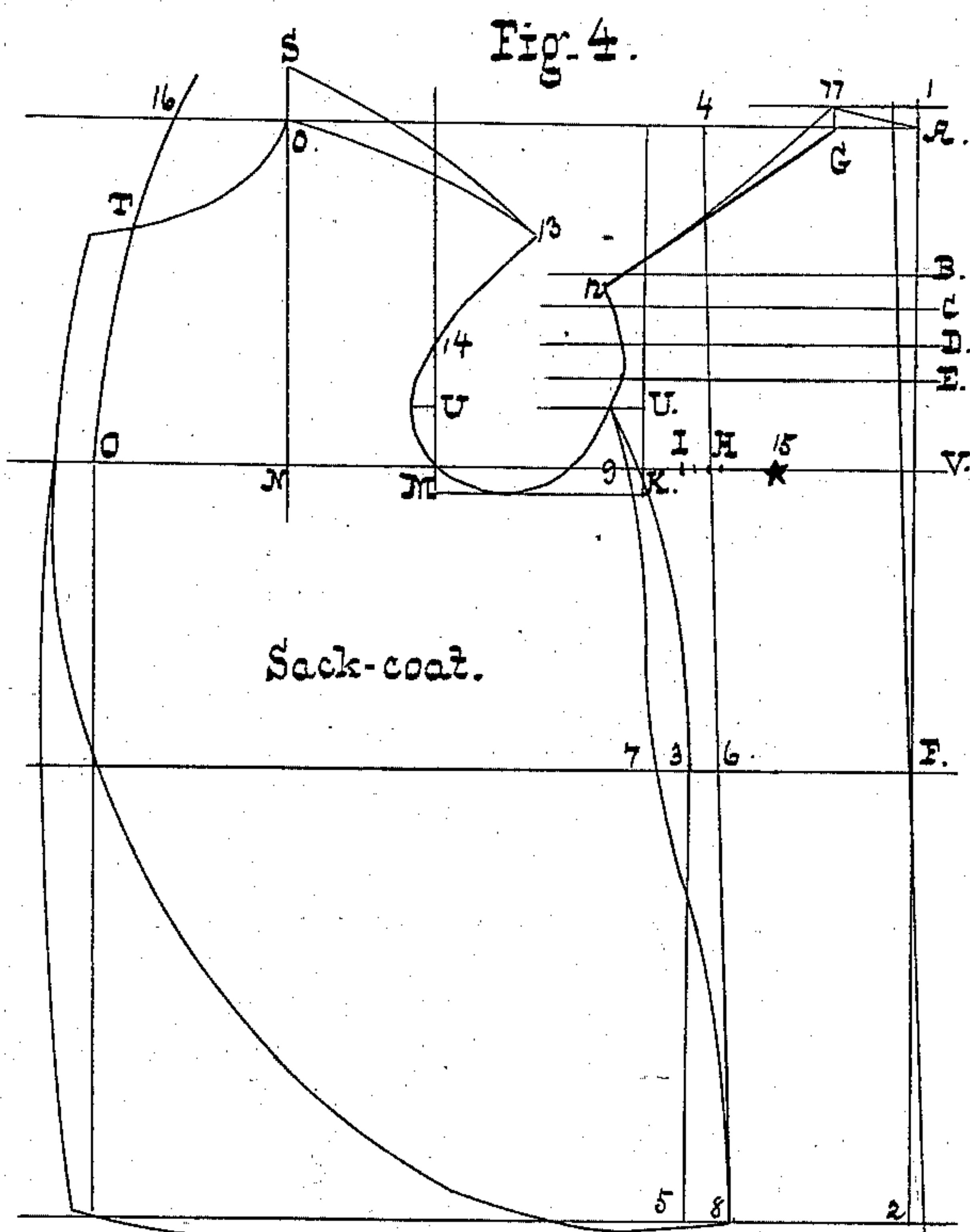
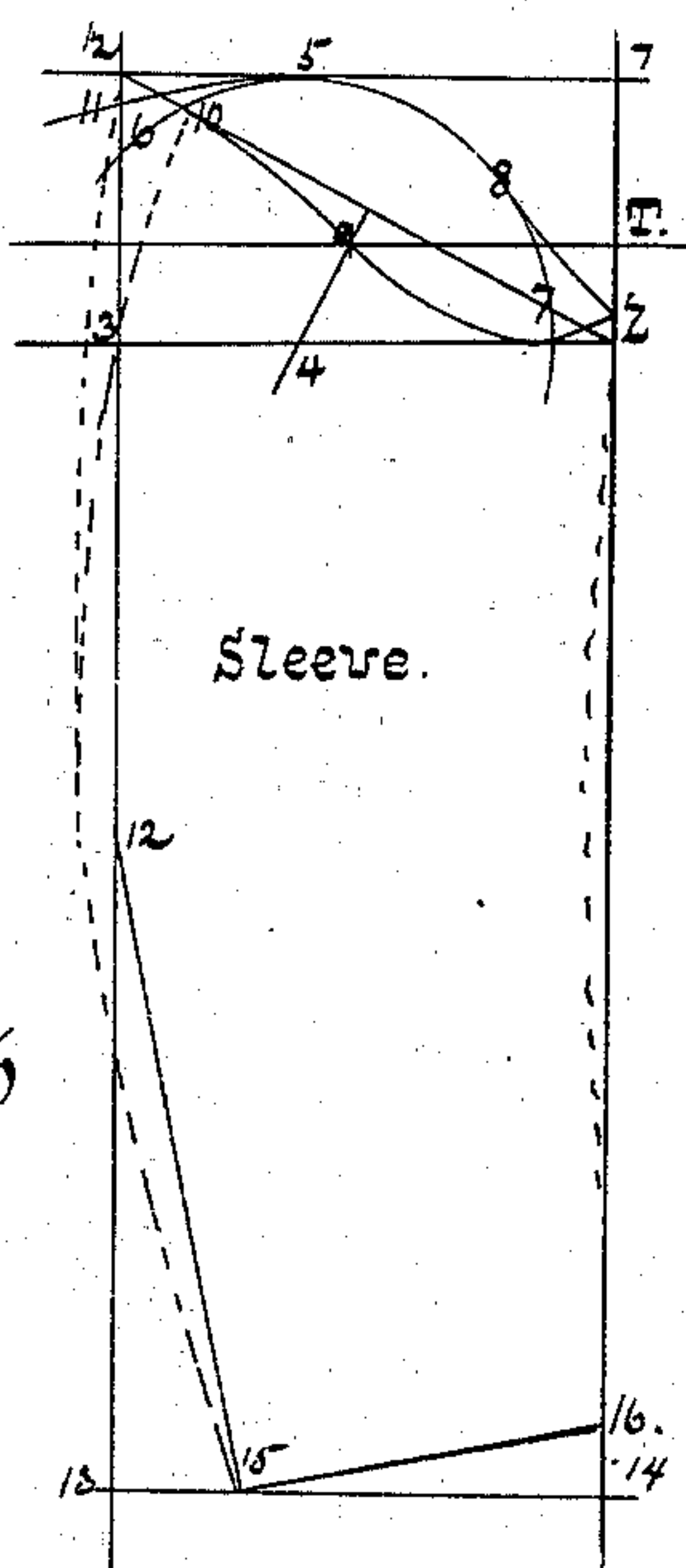


Fig. 5.



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by

Inventor,  
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A. W. Williams  
Attorney.



# UNITED STATES PATENT OFFICE.

EMIL J. LINCK, OF BALTIMORE, MARYLAND.

## CHART FOR DRAFTING GARMENTS.

SPECIFICATION forming part of Letters Patent No. 252,388, dated January 17, 1882.

Application filed September 6, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, EMIL J. LINCK, of Baltimore city, State of Maryland, have invented certain new and useful Improvements in Pattern-Charts for Drafting Garments; and I hereby declare the same to be fully, clearly, and exactly described as follows, reference being had to the accompanying drawings.

The object of my invention is to furnish a chart or measure whereby the articles of gentlemen's wear—viz., coat, pants, and vest—may be drafted and cut.

In the accompanying drawings, Figure 1, comprising Sheets A, B, and C, represents the scale or measure, which is one yard long and about two and a half inches wide. It is made either of strong Manila paper or of wood or metal, and bears on both sides arbitrary scales. The location and extent of these can best be described by stating that the drawings are correct representations of the measure, of full size. The photolithographic reduction will be readily determined upon comparing the inch-measure on Fig. 1 with a standard measure. The sections of the scale shown in Fig. 1 are supposed to be joined, the end *a* to *a'*, *b* to *b'*, *c* to *c'*, &c. The parts bearing the inch-measure in the fifth column constitute one side of the scale and bear the measurements for the coat. The other four parts are the other side of the scale, and bear the measurements for the pants from one end and for the vest from the other.

I will proceed now to describe the method of using the measure or stick in the form of directions for drafting the charts for frock-coat, sack-coat, or cut-away, for pants, and for vest.

A, the frock-coat. (See Fig. 2.) This drawing is made to one-sixth full size for a breast-measure of thirty-six inches, referred to the inch-measure of Fig. 1. Draw a straight line from 1 to 2 the desired length of waist and produce it to 3 the desired length of skirt. Lay off from 1 the points A, B, C, D, E, V, and F by taking the distances from the top of the stick to the appropriate number under the scales so lettered, the number in this case being 36. Lay out lines at right angles to the line 1 to 2 from the points A B, &c., and lay off A to G equal thirty-six measure under scale G. Apply the rule-stick on the line from V

and lay off H I K L M N O in the same way. From K, M, and N lay off lines parallel to 1 to 2 until they meet the line from the point A. From G draw G to 11 through the intersection of lines from B and K and lay off on a line from E beyond its intersection with K one-fourth inch. Apply the rule-stick on line F and lay off P Q R as above, and lay off also the same distances on the line 2. Make 4 to 5 equal 4 to 6. Draw L to R parallel to 1 to 2 and curve from the same one-half inch for the side seam, as shown. Draw a line parallel to M to K one-half inch below it and lay off M to U and U to 7 the required distance under the scale U. Mark 9 midway between K and V, and, with 9 to O as a radius, sweep out O to 13 for the breast-line. With N to 8 as radius sweep out 8 to 12 for the shoulder. Lay off 8 to S the required size under the scale S and make 10 to 11 equal S to 12. Lay off 13 to T under scale T for depth of neck-hole. Draw O to 14 and make 14 to U equal 7 to U. The lap outside the breast-line will be determined by fashion. Curve the line for the arm-hole through points 12 to 7 to M and 4, as shown, making it tangent to the line below M to K. For the skirt, lay out 1 to U and 1 to W and W to X the desired size under those scales, making U to 6 equal to the skirt-seam of the body. For a frock-overcoat make the measurements two sizes larger, setting the breast-line and edge of skirt one-half inch farther out.

B, the vest, Fig. 3. This figure is drawn to one-sixth full size, referred to scale of Fig. 1, on a breast-measure of thirty-six and waist-measure of thirty-two. Lay off on line 1 to 2 points A V B C D from the scales so lettered on the vest-measure side of the stick, and make D to 2 equal three inches. Draw lines from A, V, B, C, D, and 2 at right angles to 1 to 2, and make A to O equal required distance under scale of O; also, lay off on line from C the points E F G X H J from the appropriate scales having corresponding letters. Draw from E, G, and H vertical lines until they meet the line from V; also, draw X to 3 and lay off 4 to K the indicated measure under scale K. From 11, midway between E and C, with 11 to J as a radius, draw curve to line from V, and from H, with H to 4 as radius, draw the curve 4 to 10. Make 4 to L the meas-



ure under L, and connect 9 with 5, producing the line about a quarter-inch beyond 5. Make K to 10 equal 9 to 5 plus one-fourth inch. Draw 13 to 12 one-half inch below G to E, and lay off 12 to 6 and 12 to 7 the indicated distance under scale I. Draw 6 to 7 and 12 to 8 at right angles to each other, and lay off 12 to 8 equal  $\frac{12-6}{2}$ . Lay off 13 to O and O to 14 from scale O, (upper figures,) and lay off 3 to N from the scale of N on the waist-measure, in this instance assumed to be thirty-two, and make N to 15 equal waist-measure divided by four, and lay off from D, 16 to D the same distance plus one inch for seams. Draw J to M, making N to M equal to the required distance from scale M. Connect F with 15 and 16, and M with 18, and curve the bottom and seams as shown.

C, the sack-coat. The drawing Fig. 4 is one-sixth full size, referred to scale of Fig. 1, breast-measure thirty-six inches. Lay off from 1 the distances A B C D E V F from the scale so lettered, and make A to 2 the required length of the coat. Lay off A to G, and from V the distances H, I, K, M, N, and O. From K, M, and N draw vertical lines to the horizontal line from A. From G draw line G to 12 through the intersection of lines from B and K, and produce it until it cuts the line from C. Lay off on line from E one fourth inch beyond its intersection with line from K, and make K to U the required distance under scale of U, laying off on line U three-fourths inch. Make F to 3 equal breast-measure divided by six, and lay off same distance A to 4 and 2 to 5. Make 3 to 7 equal H to I, and 3 to 6 equal  $\frac{2 H-I}{2}$ , and draw 4 to 8 from 4 through 6.

Curve the side body and back as shown. Draw line one-half inch below and parallel to M to K, and make 10 to S the required distance under scale of S, M to U and U to 14 under scale of U. Bisect V to K, and mark the point 15, and, with 15 to O as radius, draw the breast-line. Make 16 to T the indicated length under scale of T, and draw curve 10 to 13 with N to 10 as radius from N. Make S to 13 equal 12 to 11. Draft the arm-hole as described for flock-coat. For sack-overcoat draft two sizes larger, drawing breast-line one-half inch farther out.

D, the sleeve, Fig. 5. Make 1 to Z required size under scale of Z, and make 1 to 2 and Z to 3 one-half width of arm-hole, (ordinarily one-fourth of breast-measure.) Draw 2 to Z, and from center of this line draw right line to line Z to 3 at 4. Draw circle from 4 tangent to 1 to 2, and from tangent-point draw curve to 11, midway between 2 and 6, and from 8 to a point about one-fourth inch above Z. For the under part of the sleeve lay off 1 to T the required size under scale of T, and draw T to 9, and, through 9, the curve 10 to 9 to point above Z, as shown. The usual length of sleeve is, to elbow one-third, and to wrist two-thirds, (plus one-half inch,) of breast-measure. Lay off 14

to 15 the width at wrist, and draw 12 to 15 from elbow to wrist, and 15 to 16 at right angles to 12 to 15. Curve as shown in dotted lines.

E, the pants, Fig. 6. The figure is one-sixth full size on the following measures: *a*, hip to knee, twenty-two; to bottom, forty-two and one-half; *b*, inseam, thirty-two; *c*, waist, thirty-two; *d*, seat, thirty-eight; *e*, left thigh at the top, twenty-four; *f*, width at knee, twenty-one; *g*, width of bottom, twenty. Draw 1 to 2 equal to difference between length of inner and outer seam—in this case ten and one-half inches—and at 2 draw a line at right angles to 1 to 2. Lay off from 2 the measure *c* (here twenty-four inches) on the scale P, and mark A B C D E F G under the number 24 of those scales. Draw B to 3 and mark 4 midway between B and A. Draw 4 to 3 and 4 to C at right angles to 4 to 3. Lay off 1 to O on scale O (lower figures) the indicated waist-measure, thirty-two, and make 3 to O' equal 3 to O. Draw O' to D and C to 5 equal to C F, and connect O' and 5, marking the middle point 6. Connect O' with E, curving the part from 8 to E, and from a point one-fourth inch outside of O' draw a line parallel to O' to 8, curving it to F, as shown, and curve from O to 18. From 7—a point one-third the distance from 3 to 4, measured from 4—lay off to 8 the required size of seat-measure, taken from the lower figures on scale O, and draw 8 to G and 9 to D at right angles to it, making  $9-G = \frac{D-G}{2}$ . Make 1 to I the required size under measure I—in this case thirty-eight—and lay off  $3-10 = \frac{3-O'}{3}$ .

Draw 10 to 8 and describe arc 10 to 11 from 1 as center, and arc 1 to 11 from C. Draw A to 12 the length of inseam, (thirty-two,) and lay off K L on both sides from 12 for front part, and 12 to M for hinder part, of the leg, curving from M as may be desired. Lay off 3 to 13 the hip-measure, (twenty-two,) and from 14 to 15 and 16 to 17 the width at knee, (twenty-one,) with the addition of one inch for seams. Measure distance in waist O' O and 11 to I. Compare it with the required waist-measure, (thirty-two,) add one inch for seams, and take out the balance at 1 in a gore, as shown. The spring at bottom and curve from 1 to M are dictated by fashion.

Having thus described my invention and the manner of using the same, what I claim is—

The chart herein described for drafting coats, pantaloons, and vests, consisting of a strip of suitable material having imprinted thereon the marks and scales as shown in Fig. 1 of the drawings, adapted for use in laying off the appropriate measures for cutting, substantially as and for the purpose set forth.

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Witnesses:

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W. A. BERTRAM.