No. 622,092. Patented Mar. 28, 1899.

M. TUCEK.

CHART FOR DRAFTING GARMENT PATTERNS.

(Application filed June 10, 1898.)

(No Model.) 2 Sheets—Sheet 1.

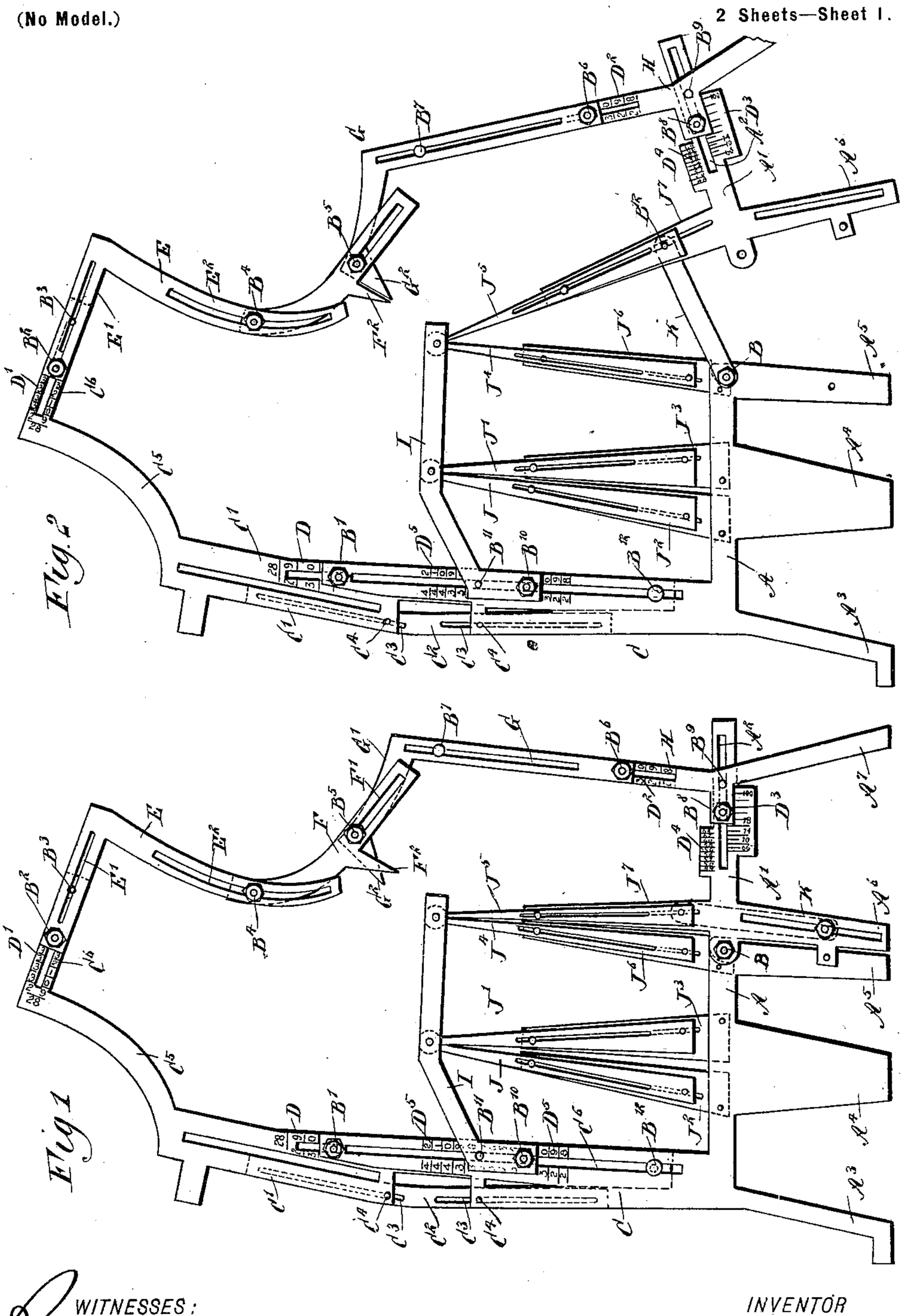

Fig. 2

Fig. 1

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Fig 4

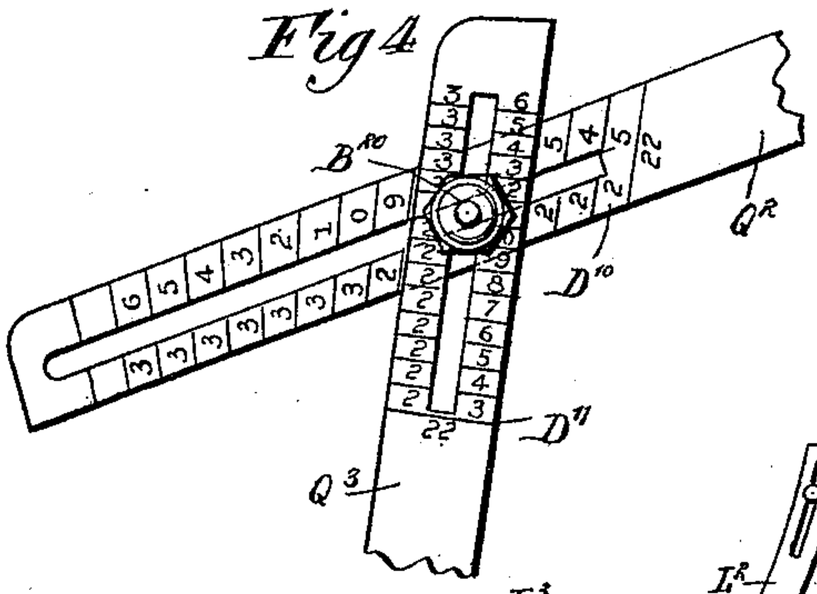

Fig 3.

Fig 5

Fig. 6.

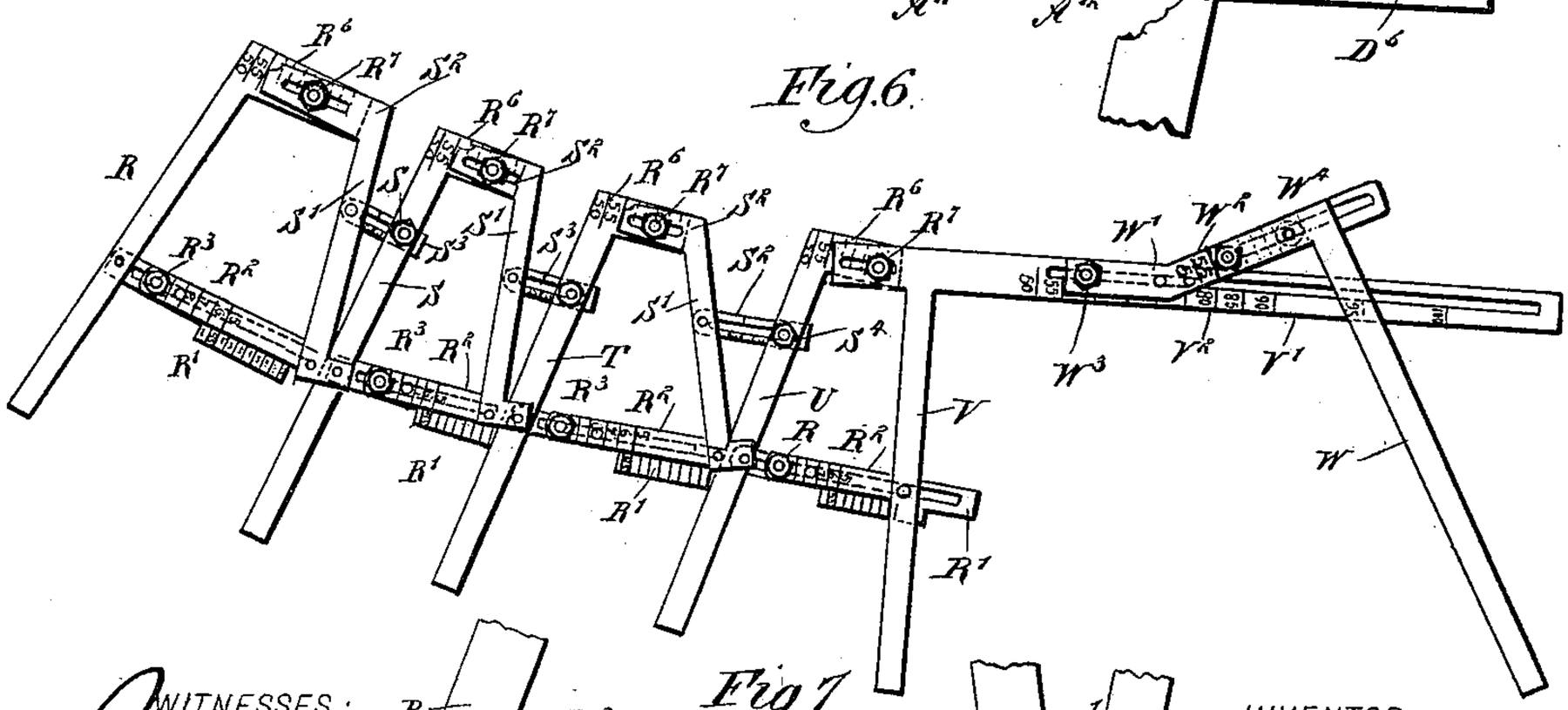

Fig 7.

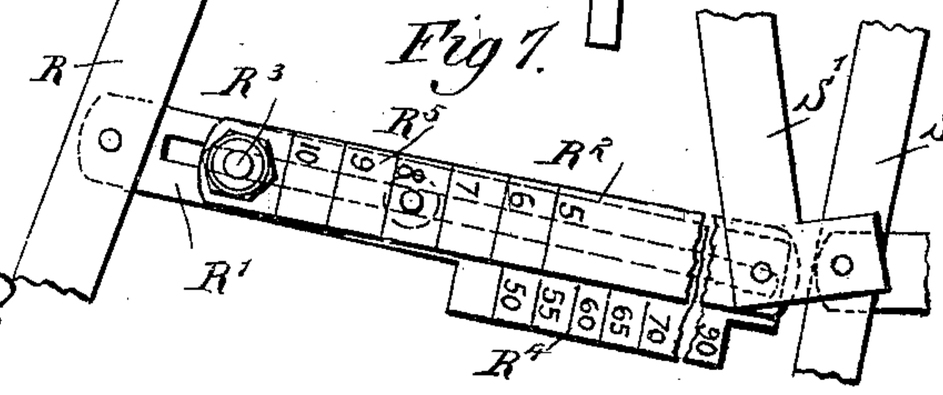

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CHART FOR DRAFTING GARMENT-PATTERNS.

SPECIFICATION forming part of Letters Patent No. 622,092, dated March 28, 1899.

Application filed June 10, 1898. Serial No. 683,058. (No model.)

To all whom it may concern:

Be it known that I, MARIE TUCEK, of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Garment-Drafting Pattern, of which the following is a full, clear, and exact description.

The invention relates to garment-drafting patterns such as shown and described in Letters Patent of the United States No. 600,050, granted to me on March 1, 1898.

The object of the present invention is to provide a new and improved garment-drafting pattern designed for accurately drafting the outlines of ladies' waists and skirts and arranged to permit of easy and convenient adjustment of the various parts without requiring any skill, the adjustment depending only on a few measurements taken of the body of the person for whom the garment is to be designed.

The invention consists of novel features and parts and combinations of the same, as will be described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of the pattern for the front of the waist. Fig. 2 is a similar view of the same with parts in position for drafting a jacket. Fig. 3 is a plan view of the pattern for the back of the waist. Figs. 4 and 5 are enlarged detailed plan views of parts of the pattern shown in Fig. 3. Fig. 6 is a plan view of the skirt-pattern, and Fig. 7 is an enlarged detail view of parts of the same.

The garment-drafting pattern is provided with a pattern for drafting ladies' waists and jackets, and this pattern, as shown in Figs. 1 and 2, is provided with a base or waist portion made in two sections A A′, pivotally connected with each other by a clamping-screw B, which serves to fasten the two parts together when drafting a waist and to allow of disconnecting the two sections when using the pattern for drafting a jacket, as indicated in Fig. 2.

From the outer end of the base-section A extends upwardly a member C, forming, with a member C′ and a connecting-slide C^2, the front arm for drafting the front portion of the waist. The members C C′ have a slidable connection with each other, and for this purpose a clamping-bolt B′, held on the upper end of the member C, engages a slot in the member C′ with the upper edge of the member C, reading on a graduation D in centimeters and indicating the front measurement from the neck to the waist. The slide C^2 is provided with two slots C^3, engaged by pins C^4 in the members C C′, so that when the latter are drawn apart or pushed together the slide C^2 will adjust itself correspondingly, so as to render the front edge of the front arm continuous for drawing the proper lines.

The upper end of the member C′ is provided with a curved offset C^5 for drafting the front portion of the neck, and the upper end of the said offset is provided with an angular arm C^6, on which slides the member E′ of an arm E, forming part of the scye-pattern. A clamping-bolt B^2, carried by the member E′, engages a slot in the arm C^6, and the pin B^3 on the latter engages a slot in the member E′, so that the said member has movement only in alinement with the arm C^6. The outer edge of the member E′ indicates on a graduation D′, formed on the arm C^6, the graduation being in centimeters and reading the front width of the waist. The other member E^2 of the arm E is slotted and connected by a clamping-screw B^4 with a link F, having a pivotal connection by a clamping-screw B^5 with the angular member G′ of an arm G, connected by a second arm H with the base-section A′. The clamping-screw B^5 is adapted to pass along a slot F′ in the scye-link F, and the arm H is adapted to be fastened by a clamping-screw B^6 to the arm G, the lower edge of which indicates on a graduation D^2, formed on the arm H and being in centimeters to indicate the front measurement from the neck to the waist similarly to the graduation D. A pin B^7, carried by the arm H, engages a slot in the arm G, so that the two arms G and H are slidable upon one another and remain in alinement at all times. The arm H has a similar sliding connection with the waist sliding section A′, and for this purpose a clamping-screw B^8 engages a longitudinal slot A^2 in the said section A′, and a pin B^9, likewise carried by the arm H, projects into the said slot

to insure proper sliding motion of the said arm H on the section A′ without changing the angular position of the two parts relatively to each other. The inner end of the arm H is on either of the graduations D^3 or D^4, formed on the section A′, the graduations being in centimeters and indicating the size of a lady's waist. The graduation D^3 is for large-sized waists and the graduation D^4 for small-sized waists.

The arm I is connected by triangular dart-pieces with the base formed by the sections A A, said triangular pieces being spaced a suitable distance apart, the first piece being formed of two arms J J′, pivoted on the arm I and having a sliding connection with two pieces J^2 J^3, pivoted on the base-section A. The other triangular piece is provided with two arms J^4 J^5, similar to the arms J J′ and likewise pivoted to the arm I, near the inner end thereof. The arm J^4 has a sliding connection with a piece J^6, pivoted on the inner end of the base-section A, and the other arm J^5 has a sliding connection with an arm J^7, rigidly extending from the other base-section A′. The base-sections A A′ are provided with depending arms A^3 A^4 A^5 A^6 A^7, of which the arms A^5 and A^6 are removably connected with each other, the several arms serving to draft the hip portion of the waist.

Now when the waist measurements, the front length, and the front width are known then the several parts are adjusted on the graduations D, D′, D^2, D^3, D^4, and D^5 to bring the several parts of the pattern in the proper position for drafting the outline of the front portion of the waist along the outer edges of the pattern for a person having the measurements mentioned. It is understood that by this simple arrangement no additional figuring whatever is necessary, as the several parts automatically adjust themselves to give the proper proportions to the outlines for the front portion of the waist.

In order to draft a jacket, a link K is employed for connecting the base-section A with the section A′, as plainly indicated in Fig. 2, said link K being normally locked to the arm A^6, as indicated in dotted lines in Fig. 1. When the link K is used, a link connection is made between the clamping-screw B and the slot in the arm J^7, engaged by the arm J^5.

The scye-link F is formed on its inside with an angular offset F^2, adapted to abut against a correspondingly-shaped angular offset G^2, formed on the upper end of the arm G, said angular offsets F^2 and G^2 being fitted against each other when it is desired to use the waist-pattern for drafting a jacket, as shown in Fig. 2. The remaining adjustment of the several parts is made according to the measurements taken and as explained above in reference to Fig. 1.

A pattern for the back portion of the waist or jacket is illustrated in Fig. 3 and is provided with base-sections A^8 A^9, fitted to slide longitudinally one upon the other and having a clamping-screw B^{13} for fastening the two sections together. The inner edge of the section A^8 is adapted to indicate on either of the graduations D^6 or D^7 in centimeters and representing the waist measurement similarly to the graduations D^3 and D^4. On the section A^8 is formed an upwardly-extending slotted arm L, on which is fitted to slide an arm L′, adapted to be fastened in place by a clamping-screw B^{14}, which, with the pin B^{15}, also serves to guide the arm L′ on the arm L. The lower edge of the arm L′ indicates on a graduation D^8, formed on the arm L and arranged in centimeters to represent the front length and correspond with the graduations D, D^5, and D^2. The upper end of the arm L′ has side extensions L^2 L^3, of which the extension L^3 is pivotally connected with an arm made in two sections N N′, held to slide loosely one upon the other and reaching the outer end of the base-section A^8. A similar connecting-arm, made in sections N^2 and N^3, connects the extension L^3 with the base-section A^9, and a like arm, made in sections N^4 N^5, pivotally connects the base-section A^9 with the upper end of the extension L^2, said arm having a slidable connection at its section N^4 with a link O, extending to a rear arm, likewise made in sections P P′.

The link O is pivotally connected with the section L′ at the junction of the extensions L^2 L^3, as plainly indicated in Fig. 3, while the upper end of the section N of the outermost arm has a suitable connection with the extension L^3 to be fastened thereto by a clamping-screw. The rear-arm sections P P′ are fitted to slide one upon the other and adapted to be fastened together by a clamping-screw B^{16}, which, with a pin B^{17}, keeps the arms in alinement with each other. The lower edge of the section P′ indicates on a graduation D^9 in centimeters to indicate the length of the back from the neck to the waist.

The upper end of the section P′ is connected with a shoulder-measuring device Q, which consists of a link Q′, pivotally connected with the section P′ and having a sliding connection with an L-shaped link Q^2, adapted to be fastened to the link Q′ by a clamping-screw B^{18}, which, with a pin B^{19}, holds the two links in alinement with each other. The outer end of the link Q^2 is slidably connected with an arm Q^3, having a loose slidable connection with an arm Q^4, pivoted on the clamping-screw B^{13} on the base-sections A^8 A^9. The link Q^3 also has a loose slidable connection with the link O, the arm Q^3, and the link Q^2 and adapted to be securely fastened together by a clamping-screw B^{20}, engaging slots in both the arm Q^3 and the link Q^2.

The link Q^2 is provided at its outer end with a graduation D^{10}, and a similar graduation D^{11} is on the upper end of the arm Q^3, the graduations being in centimeters and indicating the shoulder measurement of the back of the person on which the garment is to be fitted.

A graduation D^{12} is on the link Q^2, said graduation being similar to the graduations D^{10} D^{11} and set to the same figure—that is, according to the length of the measurement taken of the back of the person.

Now when the measurements of the waist, the shoulder, the back, the width, and the length of the back from the neck to the waist are known then the several parts are adjusted on the graduations D^6, D^8, D^9, D^{10}, D^{11}, and D^{12} according to such measurements, and then the various clamping-screws are fastened securely to unite the parts with each other. When making the adjustment according to the measurement given, the several parts readily adjust themselves, so that the outline of the pattern indicates a correct outline for the back portion of the waist.

The base-sections A^8 A^9 are provided with depending arms A^{12}, which are adjustable to allow of adjustment at the back of the waist.

The pattern for the skirt is shown in Figs. 6 and 7 and is provided with a series of L-shaped arms R, S, T, U, V, and W, of which the arm R is connected by links with the arm S, each link being formed of two adjustable sections R′ R^2 and an L-shaped link S′, the links R′ and R^2 being fitted to slide longitudinally one on the other and having a clamping-screw R^3 for fastening the sections together. The section R′ is provided with a graduation R^4, representing in centimeters the waist of the skirt, and on the other section is a graduation R^5, indicating the bottom edge of the skirt in yards. Now in case the edge of the skirt is to be five yards and waist of the skirt is to be fifty-five centimeters then the two link-sections R′ R^2 are adjusted one on the other until the numeral "5" on the graduation R^5 intersects on "55" on the graduation R^4, as indicated in Fig. 7. The link S′ is pivotally connected at its lower end with the link-section R^2 and the arm S, and the upper angular extension S^2 is held adjustably on a like extension R^6 of the arm R by a clamping-screw R^7 for fastening the extensions together after they are adjusted to the waist-line graduation on the extension R^6 and given in centimeters the same as on the graduation R^4. The arms S T, T V, and U V are similarly connected with each other by the section-links R′ R^2 and links S′, and the adjustment is the same as the one just described. A slotted link S^3 connects the links S′ with the arms S, S, T, and U, to which they are pivoted, and a clamping-screw S^4 serves to fasten the link S^3 in place after adjustment is made. On this link S^3 is a graduation similar to the graduation R^5—that is, indicating the bottom edge of the skirt in yards and being a continuation of the graduation R^5—that is, if the graduation terminates at five yards the graduation on the link S^3 runs from five yards downward to one yard or less. Thus for skirts less than five yards—say three yards—at bottom edge the adjustment at the link-sections R′ and R^2 is made at the numeral "5" on the graduation R^5 to the waist measurement on the graduation R^4, and then further adjustment is made at the link S^3 to the numeral "3."

The arm V is connected with the arm U without the additional link S′ by an extension-arm V′, slidable on the graduated extension R^6 of the arm U, with a clamping-screw R^7 for fastening the parts together. Another L-shaped arm W is slidable on an angular arm W′ and is adapted to be fastened thereon by a set-screw W^2, and the arm W′ is slidable on the arm V′ and is adapted to be fastened thereto by a set-screw W^3. Waist-line graduations are on the arms V′ and W′ for adjusting the arms W′ and W according to the waist-measure given for a particular skirt.

Now when the several parts are uniformly adjusted, as above described, according to the waist-measure and the bottom edge of the skirt the operator places the pattern upon the doubled-up material and draws lines along the edges of the arms R, S, T, U, V, and W to a distance corresponding to the length of the skirt from the waist to the bottom, the waist-line being drawn along the upper edge of the pattern at R^6, S^2, V′, and W′.

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

1. A garment-drafting pattern, provided with a front waist-pattern comprising a base made in pivotally-connected sections, a front arm having members slidable upon one another, one of said members being rigid with one end section of the base, an extensible side arm connected with the other end of the base, a scye device connected with the upper ends of the side arm and with the upper end of the front arm, a dart-arm held adjustably on the front arm, and extensible dart-pieces connected with the said front arm and with that section of the base which is rigid with the front arm, substantially as described.

2. A garment-drafting pattern, provided with a waist-pattern comprising a scye device, a side arm connected with one end of the scye device, a front arm connected with the other end of the scye device, a base-section extending inward from the lower end of the front arm, another base-section extending inward from the lower end of the side arm, a dart-arm held adjustably on the front arm, a dart-piece made in two sections each pivotally connected with the inner end of the dart-arm and loosely connected with the inner ends of the base-sections respectively, and a link connecting the inner ends of the base-sections, between the sections of the dart-piece, substantially as described.

3. A garment-drafting pattern, provided with a back waist or jacket pattern comprising a base formed of adjustable sections, a back arm made in parts adjustable one on the other, a shoulder-measuring device connected with the said back arm and formed with an

angular link, and an adjustable arm connecting the base with the said angular link, substantially as shown and described.

4. A garment-drafting pattern, provided with a back waist or jacket pattern comprising a base formed of adjustable sections, a back arm made in parts adjustable one on the other, a shoulder-measuring device connected with the said arm and formed with an angular link, an adjustable arm connecting the base with the said angular link, an arm pivoted on the base and having an adjustable member, and a link connecting the last-mentioned arm with the said back arm, the said adjustable arm having a loose sliding connection with said link, substantially as shown and described.

5. A garment-drafting pattern, provided with a skirt-pattern, comprising a series of L-shaped arms, links each made in sections, for adjustably connecting one of said arms with the other, and adjustable between the L-shaped link and its arm, substantially as shown and described.

6. A garment-drafting pattern, provided with a front jacket-pattern comprising a base made in sections pivotally connected with each other by a link, an adjustable front arm extending from one end of the base and provided with a neck-offset, an adjustable side arm connected with said base, and a scye-drafting device between said side arm and said offset, said scye-drafting device having an offset for abuting against an offset on said back arm, substantially as shown and described.

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