I. COHEN.

GARMENT FITTER.

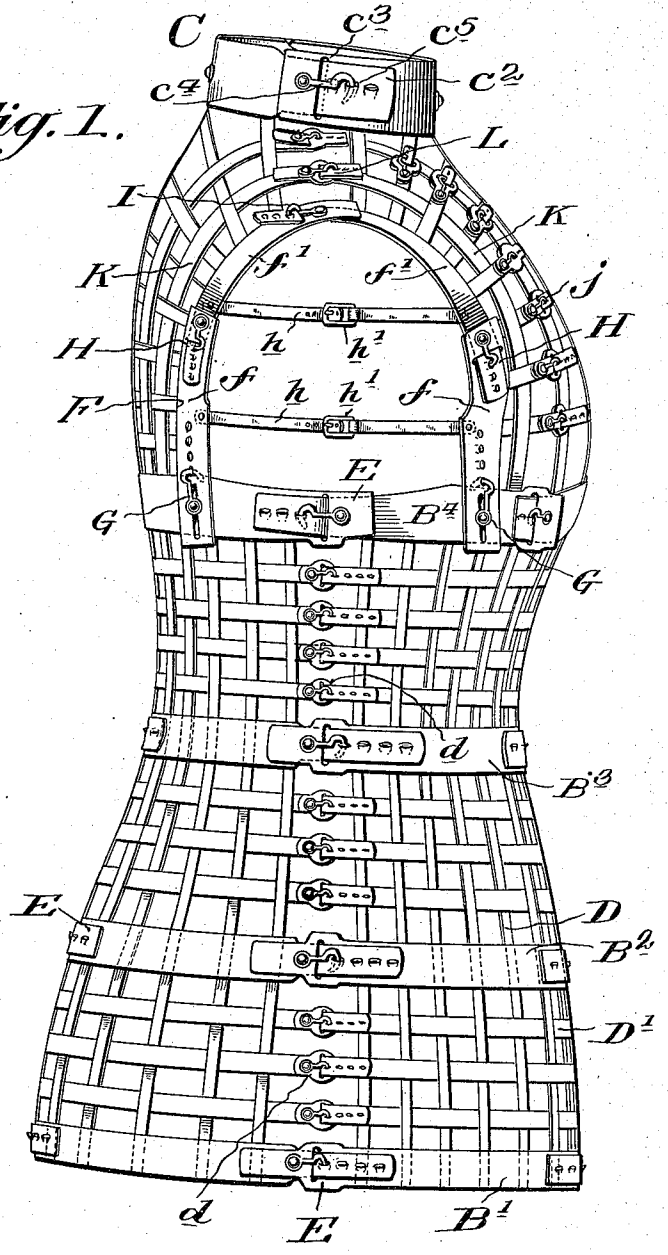
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1,157,085.

Patented Oct. 19, 1915.

5 SHEETS—SHEET 1.

Fig. 1.



Witnesses:

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By his Attorneys:

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I. COHEN.

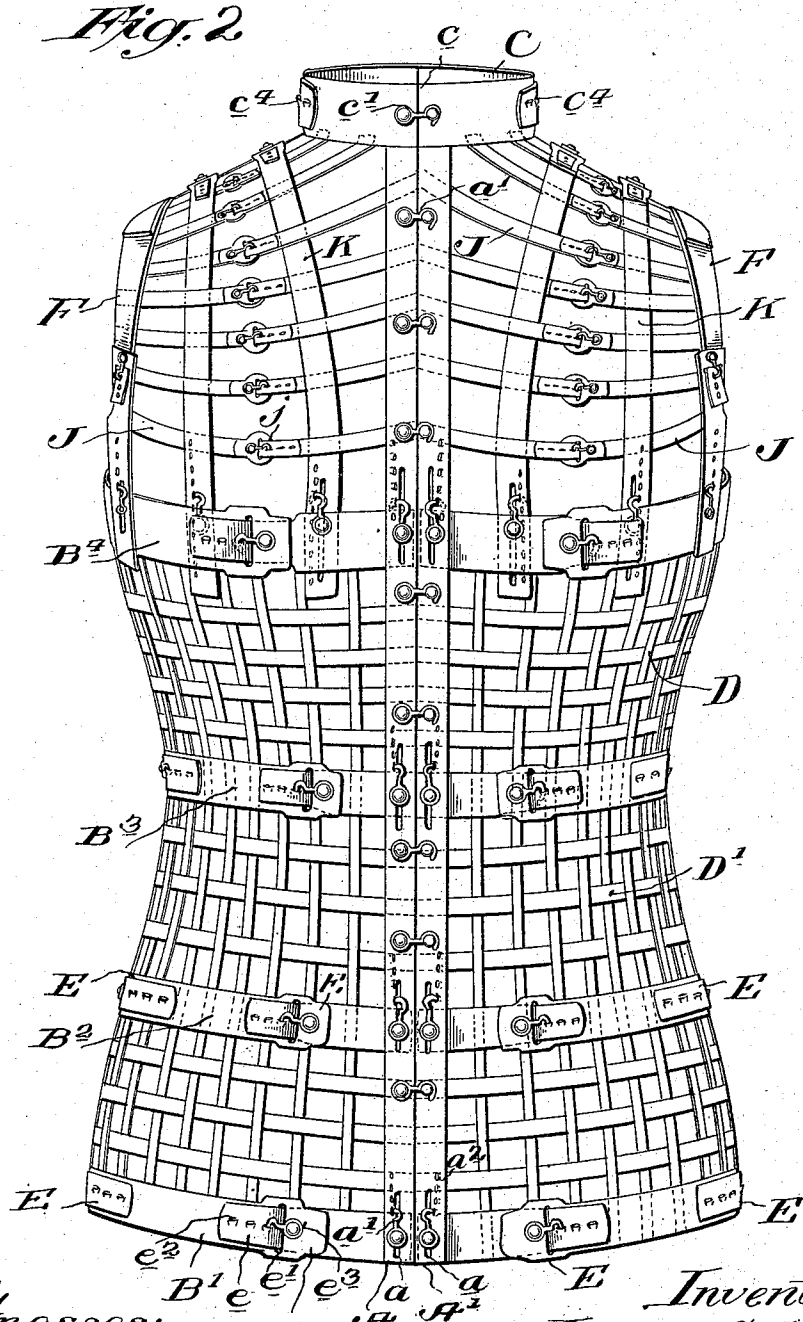
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5 SHEETS—SHEET 2.

Fig. 2.



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5 SHEETS—SHEET 3.

Fig. 3.

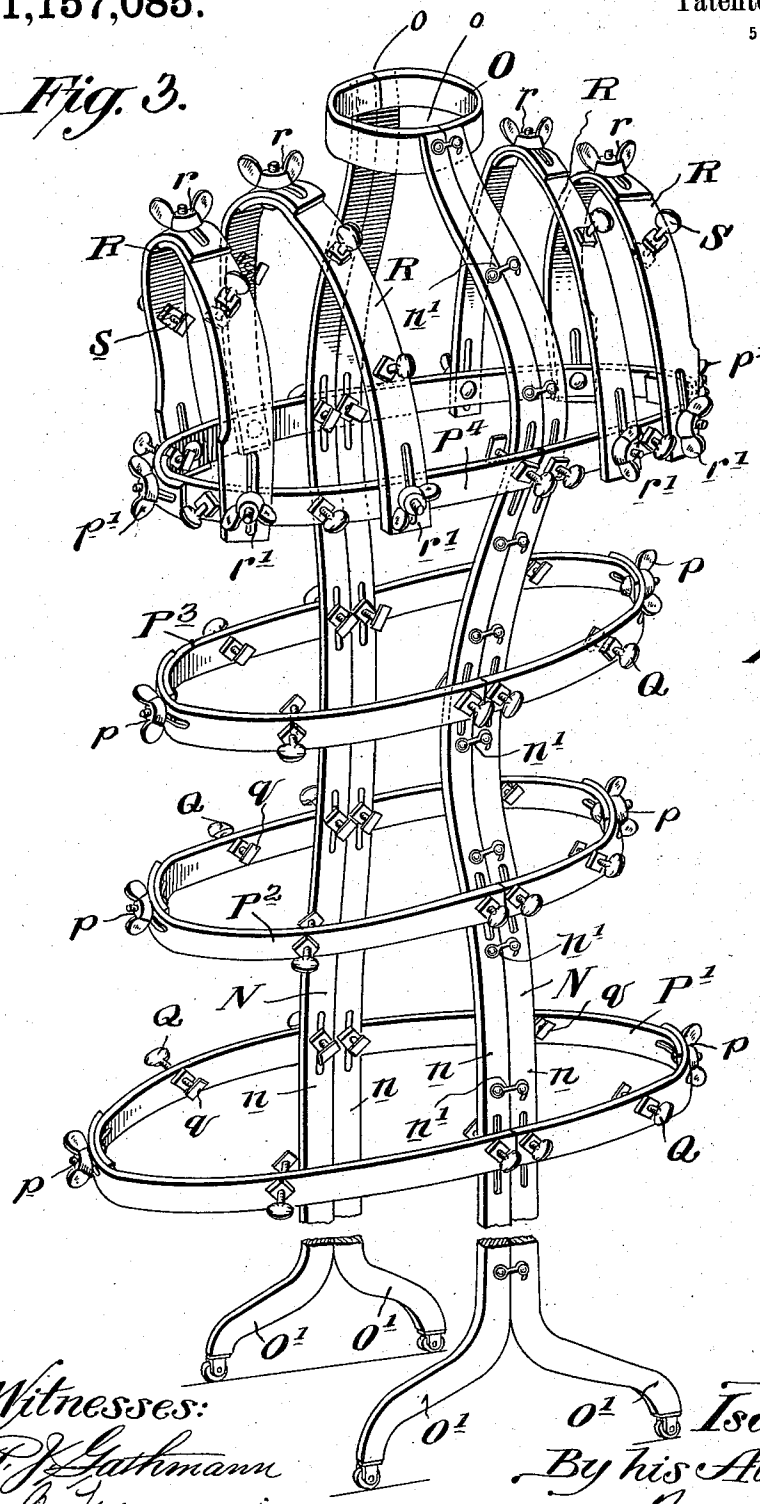
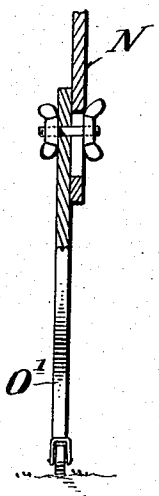


Fig. 3a.



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5 SHEETS—SHEET 4.

Fig. 4.

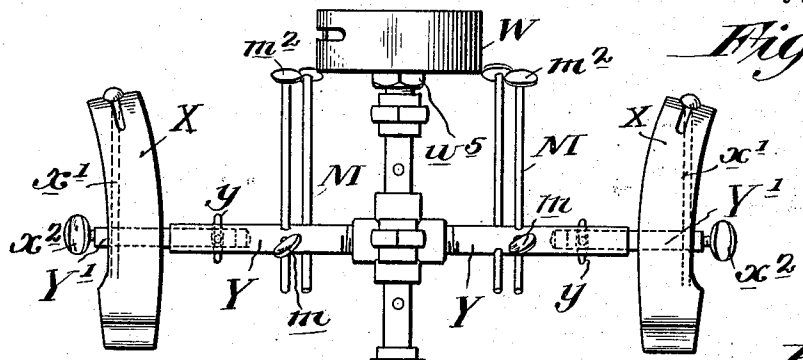


Fig. 6.

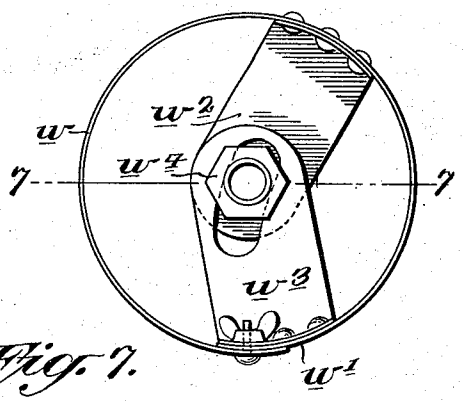
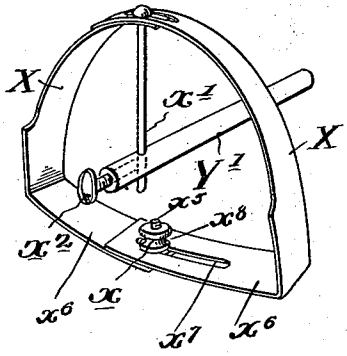


Fig. 5.



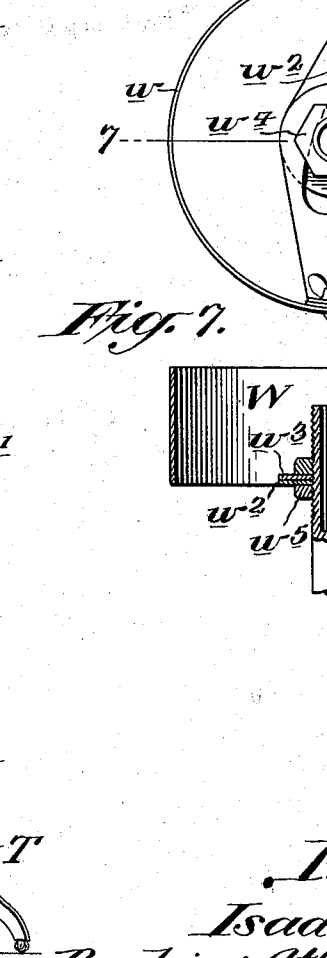


Fig. 7.

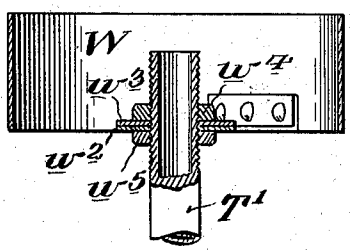


Fig. 8.

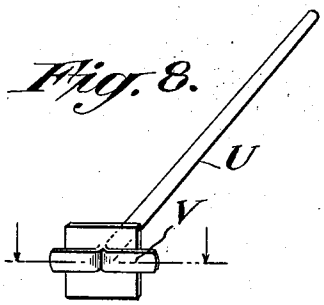
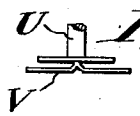


Fig. 9.



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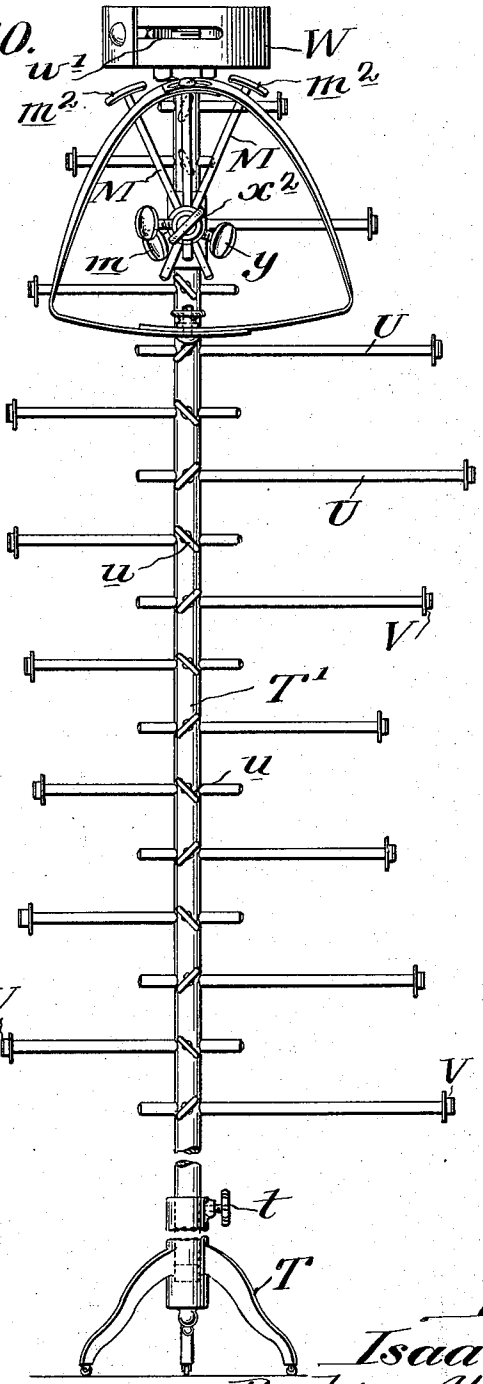
APPLICATION FILED OCT. 24, 1914.

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Patented Oct. 19, 1915.

5 SHEETS—SHEET 5.

Fig. 10.



Witnesses:

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UNITED STATES PATENT OFFICE.

ISAAC COHEN, OF GLOUCESTER, MASSACHUSETTS.

GARMENT-FITTER.

1,157,085. Specification of Letters Patent. Patented Oct. 19, 1915.

Application filed October 24, 1914. Serial No. 868,452.

To all whom it may concern:

Be it known that I, ISAAC COHEN, a citizen of the United States, residing in Gloucester, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Garment-Fitters, of which the following is a specification.

The object of my invention is to provide means for taking the shape or measurements of persons, male or female, to serve as guides in fitting the clothing for such persons.

Ordinarily the tailor gets measurements with a tape line and records these measurements and the goods is cut and basted and then tried on the person and often it is necessary to several times try the garment on in order to produce a perfect fit.

According to my invention I provide an adjustable frame made in such way that it may be placed on the person and adjusted in such manner as to produce a close fit of the person which will give the exact shape of the body and when thus adjusted the frame can be used by the tailor as a form in cutting and fitting the garment so that it is unnecessary for the customer to have the garment tried on, but the garment when made in accordance with the frame will be complete and may be delivered to the customer. It is also possible, by the use of my invention, for a customer to use his or her own fitting frame, or to obtain one and to send it to a tailor who can use such frame for making a garment without the personal attendance of the customer.

The garment fitting frame which I use is made more or less flexible or bendable in parts and it is provided with means for so adjusting it that an accurate form for fitting the garment may be produced. In connection with said fitting frame I employ an outer frame made somewhat stronger and stouter than that first mentioned and which is provided with adjusting devices by means of which different parts of the fitting frame may be bent or otherwise shaped. When this outside frame is applied to the fitting frame it is securely fastened thereto and in this condition may be conveyed or shipped to any desired point, the fitting frame being thus held securely in place without danger of being distorted or changed in shape. When it is desired to use the fitting frame for taking the measure, said outside frame is removed and the fitting frame is attached to a support of novel construction, which holds the fitting frame in place while the measurements are being taken.

My improvements are illustrated in the accompanying drawings, in which,

Figure 1 shows a side elevation of a garment fitting frame embodying my improvements. Fig. 2 is a front elevation of the same and in this connection it may be said that a rear elevation would show the same construction. Fig. 3 is a perspective view of the outside frame employed to inclose the garment fitting frame and to bend it in various parts to give the desired shape. Fig. 3ª is a detail view showing how the standards of the outer frame may be adjusted vertically. Fig. 4 is a front elevation of the supporting frame on which the garment fitting frame is held after it has been shaped and while the measurements are being taken. Fig. 5 is a detail view of one of the arm pieces of the support shown in Fig. 4. Fig. 6 is a top plan view of the collar portion of the supporting frame. Fig. 7 shows a vertical section of the collar on the line 7—7 of Fig 6. Fig. 8 is a perspective view of one of the horizontal arms forming part of the supporting frame. Fig. 9 is a detail view thereof. Fig. 10 is a side elevation of the supporting frame shown in Fig. 4.

The garment fitting frame shown in Figs. 1 and 2 is adapted to be applied to the person and so adjusted as to produce a substantial facsimile of the upper portion of the body which can afterward be used in taking measurements from which the goods may be cut. The frames and supports shown in the remaining figures of the drawings are used in connection with the fitting frame shown in Figs. 1 and 2 in the manner hereinafter described.

In the construction of the fitting frame, shown in Figs. 1 and 2, I employ metal for the most part. The vertically arranged relatively wide metallic strips A, A′, at the front of the frame are connected to similar metal strips at the back of the frame by means of horizontally arranged wide bands B′, B², B³, B⁴. These bands are arranged substantially at equal distances apart, the lower band B′ being at the bottom of the frame and the upper band B⁴ being arranged just below the plane of the arm pits. At the top of the frame there is a collar band C divided at *c* and held in place by a hook and

eye c'. The collar band is adjustable, as indicated in Fig. 1, by means of a tongue c^2 passing through a slot c^3 and the band is held in its adjusted position by means of a hook c^4 adapted to engage eyelets or holes c^5 in the tongue. As indicated in Fig. 2 the collar C is preferably provided with adjusting devices of the kind just described on opposite sides. Relatively narrow and somewhat more flexible strips D are arranged vertically between the lower band B′ and the upper band B^4, and these are interlaced with similar horizontally arranged strips D′. The strips D and D′ are not secured together nor are they secured to the bands B′, B^2, B^3, and therefore they may be adjusted to any desired extent. The strips D are, however, secured to the upper band B^4. The formation shown in Fig. 2 at the front of the fitting frame is duplicated at the rear thereof. Above the top band B^4 the frame is constructed in a somewhat different way which will be hereinafter described.

Each of the bands B′, B^2, B^3, B^4 is provided with adjusting devices by means of which its length may be varied. These adjusting devices are shown in a general way at E and consist of tongues e on some sections of the band passing through slots e' in adjacent sections thereof. The tongues e are provided with eyelets e^2 engaged by hooks e^3. The manner in which the adjustment by means of the devices E may be made is obvious, and by the means shown the bands B′, B^2, B^3, B^4 may be enlarged or reduced in diameter to any desired extent within reasonable limits.

It is also desirable to adjust the bands B′, B^2, B^3, B^4 vertically and for this purpose the strips A, A′ are formed with slots a through which extend pins carrying hooks a' which are adapted to engage eyelets a^2. Each of the bands B′, B^2, B^3, B^4 is provided with such devices, the arrangement being such that not only can the bands be varied in diameter but they may be raised and lowered to obtain the proper adjustments. When the bands are tightened, corresponding movements are given to the narrow strips D, D′, *i. e.*, the strips D, D′ are bent or compressed and as they are made of flexible material they retain the shape thus given to them.

By reference to Fig. 1 it will also be observed that the horizontally arranged narrow strips D′ are provided with adjusting devices d of the kind hereinbefore mentioned and such adjusting devices are preferably employed on the opposite sides of the fitter.

The fitting frame is provided on opposite sides with arm portions F made in sections, as shown, and adjustably connected. Each arm portion comprises two parts f which are attached to the top band B^4 adjustably by means of the devices G and two top portions f' adjustably connected at H with the upper ends of the lower strips f. The parts f' at their upper ends are adjustably connected at I. Between the arm portions F and the collar there are strips J which extend from the vertical strips A, A′ to the arm portions, it being understood that strips similar to those shown at J in Fig. 2 are arranged on the rear part of the fitting frame. These strips J are adjustable at j and they are interlaced with somewhat wider strips K which extend from the upper band B^4 over the shoulders being made adjustable at L in the manner indicated in Fig. 1. Straps h arranged transversely of the arm frames may also be employed, being adjustable at h' as shown. These are for the purpose of holding the arm portions of the frame in place when they are adjusted.

When it is desired to use the garment fitter above described, the two halves thereof are disconnected and applied to the person in an obvious way. After they are thus applied the two halves are connected with each other by the fastening devices a', a^2 and then the various strips are adjusted so as to cause the frame to as tightly as possible fit the person, but an accurate fit cannot always be obtained in this way and in order to perfect the fit I employ the frame shown in Fig. 3 of the drawings. This frame is applied outside the fitting frame shown in Figs. 1 and 2, and by means of certain adjusting devices certain parts of the frame are bent until they accurately fit the body. The frame shown in Fig. 3 comprises uprights or standards N, each of said standards being made in two parts n connected by hooks and eyes n' by means of which the vertical portions of the frame may be separated or held together. The upper ends of the parts N are connected to a collar O which is divided on the lines indicated. The lower portion of the frame is provided with feet O′ which may be provided with casters or rollers, as shown, enabling the frame to be held erect and easily moved from place to place.

As shown in Fig. 3^a the frame pieces N may be lengthened or shortened to vary the height of the frame to correspond to the height of the person being measured. The frame pieces N support bands P′, P^2, P^3, the diameters of which may be varied by means of adjusting devices p, and these bands carry set screws Q which are used in the manner hereinafter described. There is also another horizontally arranged band P^4, the diameter of which may also be changed or adjusted by means of adjusting devices p'. To this band are attached shoulder portions or bands R which may be adjusted by means of devices r and r'. The bands R also carry set screws S similar to

the screws Q before referred to. When the frame shown in Fig. 3 is applied to the fitted frame shown in Figs. 1 and 2, the bands P′, P², P³, P⁴ are given the proper adjustment and then the set screws Q and S are adjusted in such manner that their inner ends, which are provided with plates *q* to engage the strips B′, B², B³, B⁴ will cause said strips to be bent where required to make them conform to the shape of the body. In a similar way the shoulder pieces R are adjusted and the set screws S are used in a similar way to bear upon the bands K and bend them where required.

After the fitting frame has been given such adjustment that it conforms properly to the body of the person being fitted, the fitting frame with its outer frame may be sent to a tailor or shipped to any desired place and when the measurements are to be taken the outer frame is removed and the fitting frame is placed on the supporting frame shown in Figs. 4 to 10 of the drawings. This frame comprises a base portion T in which is adjustably mounted a standard T′ which may be held at any desirable position by means of a set screw *t*. This standard T supports two vertical series of horizontal arms U extending forwardly and rearwardly from the standard and adjustably held therein by means of set screws *u*. By means of such screws the arms U may be projected forwardly and rearwardly to any desired extent. Each one of the arms U carries devices V of any suitable construction adapted for attachment to the garment fitting frame.

At the top of the standard T′ there is a collar portion W shown most clearly in Figs. 6 and 7. It comprises a band *w* split and overlapped at *w′* surrounding the upper end of the standard T′ and connected therewith by arms w^2, w^3 which are slotted as indicated in such manner that the collar may be made to be of larger or smaller diameter and may be held in place by nuts w^4, w^5. The standard T′ near its upper end carries arms Y projecting sidewise in opposite directions from the standard. These arms have recesses in their outer ends into which fit rods Y′, which rods may be adjustably held in the arms Y by means of set screws *y*. The rods Y′ support arm frames X, the construction and shape of which are clearly shown in Fig. 5, and each of which is made in two parts adjustably connected by the devices *x*. These latter devices may be of any suitable construction. As shown, they comprise a stud bolt x^5 secured to one member x^6 of the frame and extending through a slot x^7 in the other part thereof. The bolt carries a nut x^8 which may be loosened for adjustment and tightened to hold the parts in their adjusted position. A vertical rod x' is attached to the upper portion of each arm frame X and this extends through a vertical hole in the rod Y′ and is held in place by a set screw x^2. By these devices the size or shape of the arm frames may be changed and they may be moved nearer to or farther away from the standard T′, and they may be given a slight vertical adjustment relatively to the arms Y. The arms Y support vertically arranged rods M which extend through said arms and are held in place by set screws *m*. At their upper ends the rods M are provided with heads m^2 which are adapted to engage the shoulder straps or strips of the garment fitting frame. Said garment fitting frame, of the kind indicated in Figs. 1 and 2, when it is taken out of the outer frame, shown in Fig. 3, is placed on the support, shown in Figs. 4 and 10, and the arms U, M, etc., are given the proper adjustments to hold the garment fitting frame with sufficient stability to prevent it from losing its shape and to enable the tailor to take the necessary measurements.

I claim as my invention:

1. A garment fitting frame, comprising vertical pairs of strips one at the front and one at the rear of the frame, means for detachably connecting the strips of each pair together, a series of horizontally arranged bands adjustably secured to said vertical strips, means for adjusting said horizontally arranged bands to vary their diameter, arm frames provided with means for adjusting them, means for adjustably connecting the arm frames with the upper horizontally arranged band, shoulder bands, means for adjusting their length, means for adjustably connecting the shoulder bands with the upper horizontally arranged bands, and flexible strips arranged horizontally and vertically between said horizontal and vertical bands interlaced with each other and which are adjustable relatively to each other and to said horizontal and vertical bands.

2. A garment fitting frame, comprising vertically arranged pairs of strips, one at the front and one at the rear, means for detachably connecting the strips of each pair together, a collar band attached to the vertically arranged strips, means for adjusting the collar band to vary its diameter, a series of horizontally arranged bands adjustably connected with the vertical strips, means for adjusting the horizontal bands to vary their diameter, arm frames, means for adjusting them to vary their size and shape, means for adjustably connecting the shoulder frames with the upper one of the horizontally arranged bands, shoulder bands, means for adjustably connecting them with the upper one of the horizontally arranged bands, flexible strips arranged vertically and held in place by said bands, flexible strips arranged horizontally and interlaced with

said flexible vertical strips, and means for varying the lengths of said horizontally arranged flexible strips.

3. A garment fitting frame, comprising vertically arranged pairs of strips, one at the front and one at the rear, means for detachably connecting the strips of each pair together, horizontally arranged bands adjustably secured to said vertically arranged strips, means for adjusting said horizontally arranged bands to vary their diameter, arm frames, means for adjustably connecting the arm frames with the upper one of said horizontally arranged bands, shoulder bands adjustably connected with the upper one of said horizontally arranged bands, flexible strips arranged horizontally and vertically and held in place by said bands; and an outer frame applied to said garment fitting frame, comprising vertically arranged portions detachably connected with each other, horizontally arranged bands supported thereby and adjustable vertically thereon, shoulder bands adjustably connected with the upper one of said horizontally arranged bands, and set screws carried by said horizontal bands and said shoulder bands, the inner ends of which engage bands of the garment fitting frame and serve to bend them and hold them in place.

In testimony whereof, I have hereunto subscribed my name.

ISAAC COHEN.

Witnesses:
WALTER C. KING,
CORA M. TYNE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."