Sept. 16, 1924. 1,508,734

C. A. UFFORD

GARMENT FORM

Filed April 1, 1922 3 Sheets-Sheet 1

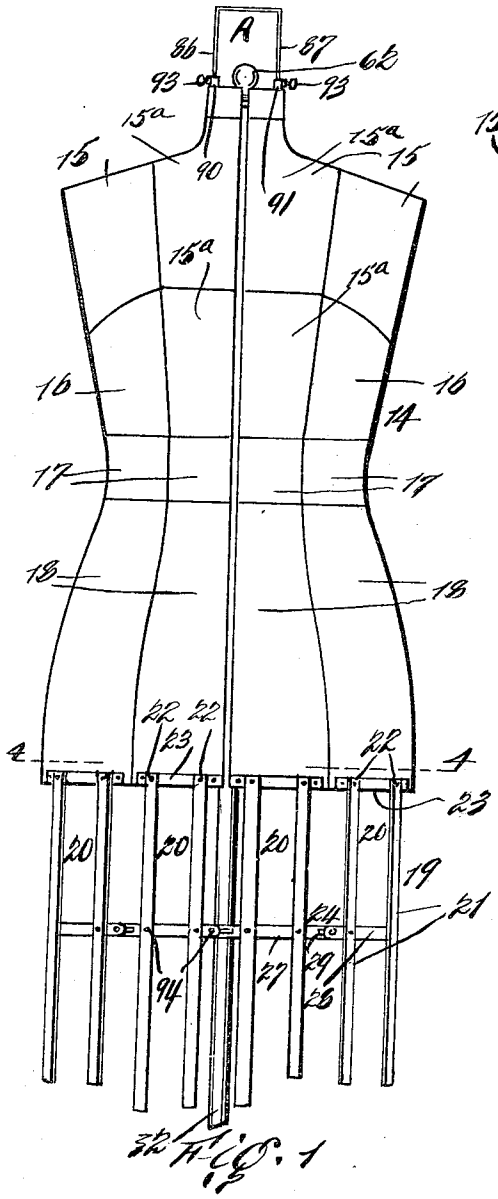


Fig. 1.

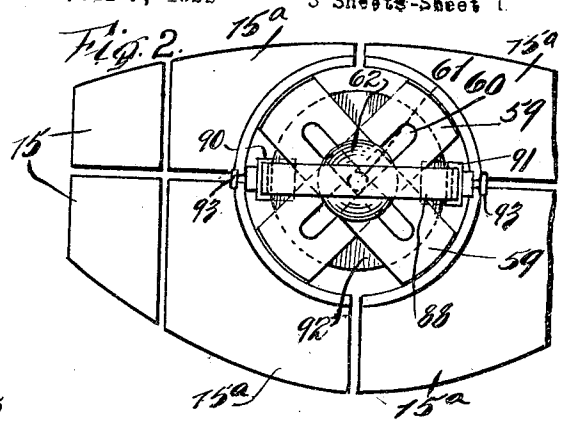


Fig. 2.

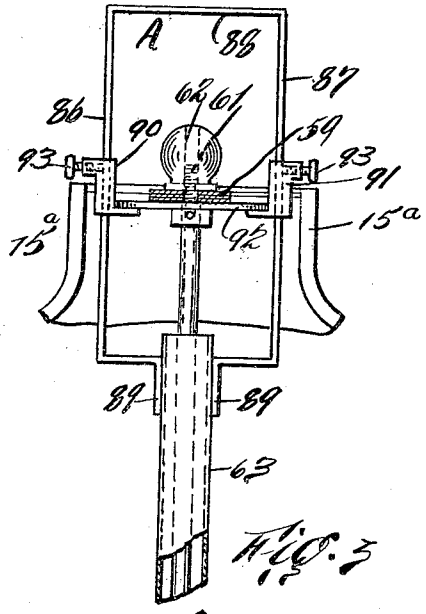


Fig. 3.

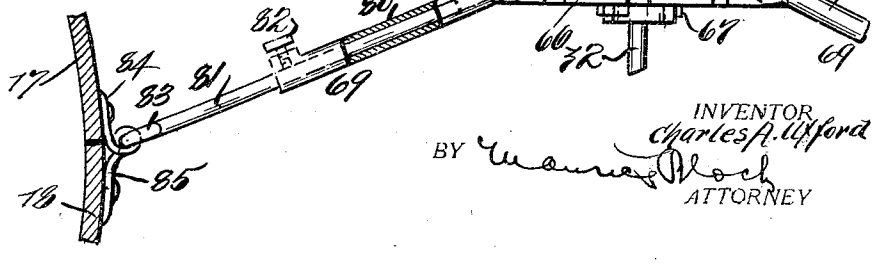


Fig. 4.

INVENTOR
Charles A. Ufford
BY Thomas Block
ATTORNEY

Sept. 16, 1924. 1,508,734

C. A. UFFORD

GARMENT FORM

Filed April 1, 1922 3 Sheets-Sheet 2

Fig. 4.

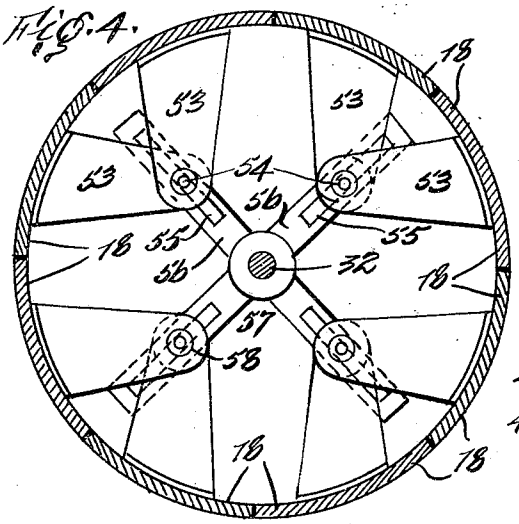


Fig. 5.

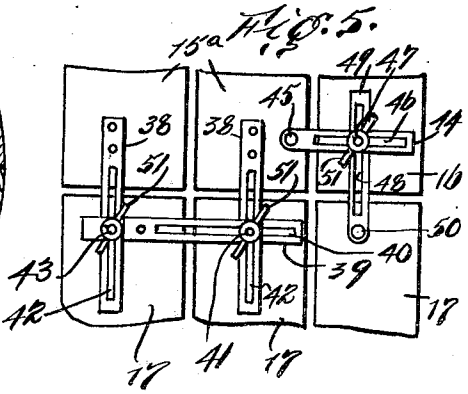


Fig. 6.

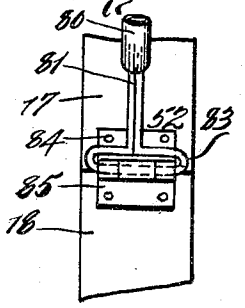
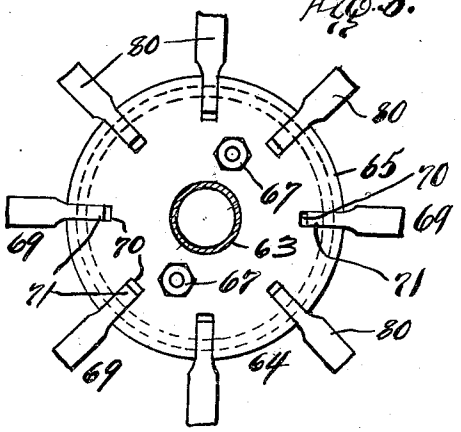


Fig. 8.



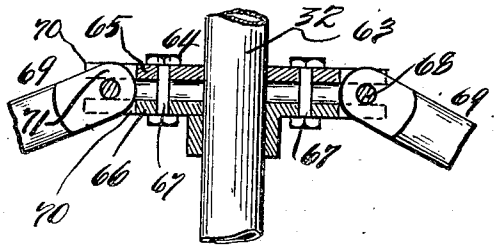


Fig. 7.

INVENTOR
Charles A. Ufford.
BY Maurice Block
ATTORNEY

Sept. 16, 1924. 1,508,734

C. A. UFFORD

GARMENT FORM

Filed April 1, 1922 3 Sheets-Sheet 3

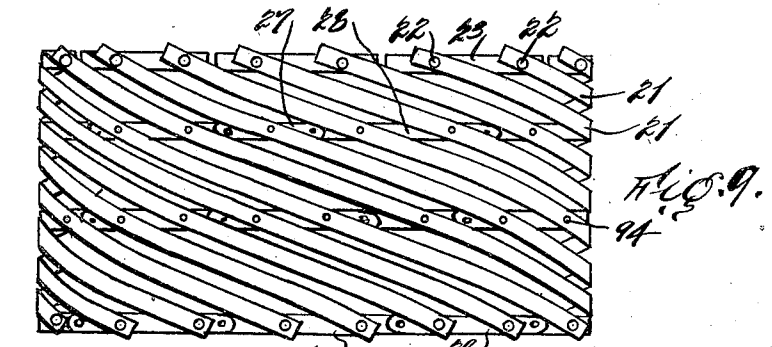


FIG. 9.

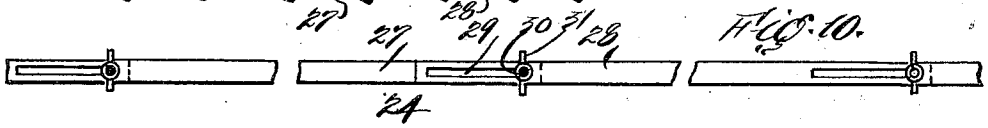


FIG. 10.

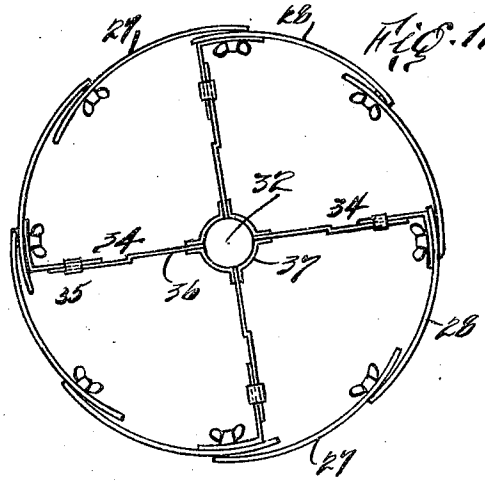


FIG. 11.

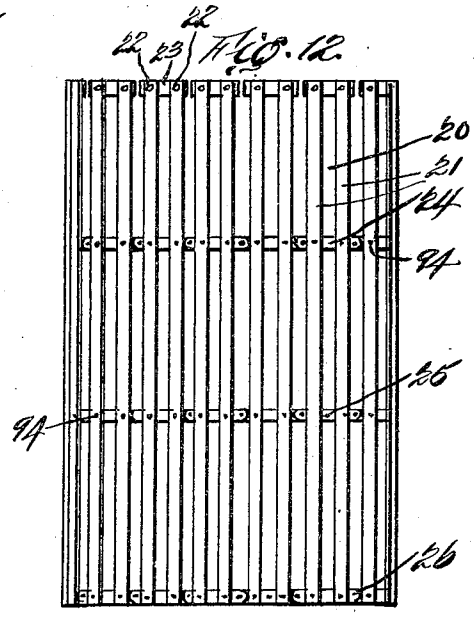


FIG. 12.

Inventor
Charles A. Ufford

By his Attorney
Maurice Block

Patented Sept. 16, 1924. 1,508,734

UNITED STATES PATENT OFFICE.

CHARLES A. UFFORD, OF DORCHESTER, MASSACHUSETTS.

GARMENT FORM.

Application filed April 1, 1922. Serial No. 548,720.

To all whom it may concern:

Be it known that I, CHARLES A. UFFORD, a resident of Dorchester, Suffolk County, State of Massachusetts, and a citizen of the United States of America, have invented certain new and useful Improvements in Garment Forms, of which the following is a specification.

This invention relates to improvements in dress forms, one of the objects being to provide a dress form arranged for handy and accurate adjustment at the neck, waist, hip and skirt portions. A further object of my invention is to improve the means for effecting the various adjustments, that is to say, to embody the adjusting mechanism in a simple efficient structure not easily damaged and readily manipulated. I have found that to provide a skirt portion of a form that will meet the many conditions incident to garment hanging, it is essential to construct the skirt portion out of a plurality of sections adjustably connected together, each section being independent of its adjacent sections, excepting for the adjustable connections. A further object of my invention is to improve the mechanism for adjusting the several sections making up the adjustable waist portion of the garment form.

I will not proceed to describe my invention in detail, the novel features of which I will finally claim, reference being had to the accompanying drawings, wherein:—

Fig. 1 is a face view of a portion of a dress form embodying my improvements;

Fig. 2 is a top plan view of the neck portion, with parts broken away;

Fig. 3 is an enlarged fragmentary detail view illustrating the adjusting means for the waist sections; some of the arms being omitted;

Fig. 4 is a section on line 4—4 Fig. 1;

Fig. 5 is a fragmentary detail view illustrating the adjustable connections for the form sections;

Fig. 6 is a detail view, illustrating the hinge connection between the waist sections and lowermost sections of the form;

Fig. 7 is an enlarged sectional view, illustrating the mounting for the inner end of each arm for adjusting the waist sections;

Fig. 8 is a plan view thereof;

Fig. 9 is a view of the adjustable skirt portion collapsed;

Fig. 10 is a detail view illustrating the adjustable connections for the sections of the skirt portion of the form;

Fig. 11 is a detail view illustrating the adjustable band members arranged in the form of a complete band, the strips being omitted; and

Fig. 12 is a view in elevation of the adjustable skirt portion extended.

My improved dress form is made up of a body portion 14 consisting of adjustable shoulder portions 15, bust and neck portions 15ª, side portions 16, waist portions 17, and lower body portions 18 which include hip portions. The form also includes a foldable skirt portion 19.

The skirt portion 19 is made up of sections 20, each section being composed of (in this instance) two flexible metal strips 21, which at one end are pivotally connected at 22 to a plate 23. Each section 20 is adjustably connected to a similar section by adjustable bands 24, 25 and 26, each band being made up of slidably connected band members 27 and 28 (Fig. 10), the band member 28 having a slot 29 and the band-member 27 a bolt 30 passing through said slot, a wing-nut 31 being employed to secure the strips together after being adjusted. As each skirt section is attached to a corresponding section 18 of the form, the said section can be adjusted relative to each other. When the sections 18 are moved apart or placed closer together, the wing-nuts 31 can be loosened in order that the skirt as a whole can be made larger or smaller. As the intermediate skirt-band 25 in this instance, is utilized to connect the skirt to a post 32, I provide adjustable arms 34 made up of the slidably connected members 35 and 36. Each arm at its inner end is connected to a fitting 37 slidable longitudinally of post 32. The sections 15ª of the body portion 14 are connected by vertical links 38 to the sections 17 adjacent thereto, said links 38 in turn being connected by transverse links 39. The links 39 have a slot 40 through which a bolt 41 carried by one of the adjacent sections 17 passes. The links 38 have slots 42. The bolt 41 passes through slot 42 in its adjacent link 38 and bolt 43, which is carried by the section 17, passes through slot 42 in its adjacent link 38. The sections 16 are connected to the adjacent sections 15ª by links 44 pivoted to the adjacent section 15ª at 45.

Each link 44 has a slot 46 through which a bolt 47 carried by the section 16 passes. The bolts 47 pass through slots 48 in vertically disposed links 49 pivotally connected at 50 to their respective sections 17. By means of the above links, the body sections can be separated or moved together, as may be required, and fastened by wing-nuts 51, which each bolt carries. The lower sections 18 are connected to sections 17 by hinges 52 (see Fig. 6), at the top thereof.

Each section 18, adjacent its lower end, carries a plate 53. The plates 53 of each pair of sections 18 converge and have passing through their superimposed free ends a bolt 54 which passes through a slot 55 in the arm 56 of a spider 57 rotatably and slidably mounted on post 32. By this means, the sections 18 can be moved toward or away from post 32 to increase or decrease the diameter of this region of the form. The sections 18 are held in adjusted positions by nuts 58. The sections 15^a of the form are connected to post 32 by plates 59 having slots 60 through which the threaded end 61 of post 32 passes, the plates being held in adjusted positions by a knob 62 having a threaded engagement with the post, the knob acting as a nut.

To adjust the waist sections 17 inwardly or outwardly to increase or decrease the diameter of the form at the waist, I provide a sleeve 63 which surrounds post 32 and which is movable longitudinally of the post (see Fig. 3). The lower end of sleeve 63 carries a bracket 64 made up of plates 65 and 66 clamped together by bolts 67 (see Fig. 7). The plates 65 and 66 retain therebetween a ring 68 which serves as the pivot for a plurality of arms 69, said plates having alining slots 70 to receive the heads 71 at the inner end of said arms. Each arm 69 consists of a tubular member 80 and a spindle member 81 slidably engaging the tubular member 80 and held in adjusted positions by binding-screws 82 (Fig. 3). The outer end of each spindle-member 81 carries an eye 83 which engages the hinge-members 84 and 85 and serves as a pivotal connection for the hinge-members as well as a means to connect the sections 17 and 18 to the post 32. To move the sleeve 63 longitudinally of the post 32, I provide a handle consisting of vertical strips 86 and 87 connected at the top by a cross-bar 88, the lower end of each vertical member being connected to sleeve 63 at 89. The vertical strips 86 and 87 slide through blocks 90 and 91, respectively, carried by post 32, the adjustable plates 60 being clamped between plate 92 and knob 62. The vertical members 86 and 87 are held in adjusted positions by binding-bolts or screws 93. One of the advantages of this feature of my improvement is the rigidity of the arms 69 due to the employment of the tubular members 80 and the cooperating members 81. With this form of arm all side play or slackness is obviated, and with this form of adjustment for the waist portion, the waist can be increased or decreased in diameter by merely moving the handle A upwardly or downwardly after loosening the bolts 93. The movement upwardly or downwardly upon the part of sleeve 63 will spread or contract the form at the waist region. The sleeve 63 will be held in adjusted positions by tightening the bolts 93.

To collapse the skirt portion 19, the form will be lowered to allow the bottom of the skirt portion to rest upon the floor, or stand (not shown) carrying post 32 and twisted, whereby the members forming the skirt will fold into the condition illustrated in Fig. 9. It will be seen that the plate 23 of each skirt section is secured to a section 18 of the bust-portion of the form; hence, when a section is adjusted, its attached skirt section 20 will move with it. The strip members 27 and 28 will be pivotally connected to their respective strip-members 21 as at 94.

What I desire to secure by Letters Patent is:—

1. In a garment form, a post member, adjustable sections carried thereby, a sleeve slidable longitudinally of the post member, adjustable arms connecting said sleeve and certain of said adjustable sections, a handle connected to said sleeve and protruding from the upper part of the form and adapted to be drawn upwardly to cause an inward movement of said arms, oppositely disposed block members through which the handle slides connected with said post member and located exteriorly of the neck portion of the form to lock the handle in adjusted positions.

2. In a garment form, a post member, adjustable sections carried thereby, a sleeve slidable longitudinally of the post member, adjustable arms connecting said sleeve and certain of said adjustable sections, said arms consisting of a tubular portion and a spindle portion slidable within the tubular portion, means to lock the spindle and tubular portions together, a handle for moving the sleeve longitudinally of the post, block members carried by said post, through which said handle is adapted to slide, and means for locking the blocks to the handle.

3. In a garment form, a post member, adjustable sections carried thereby, a sleeve slidable longitudinally of the post member adjustable arms connecting said sleeve and certain of said adjustable sections, a rectangular handle member connected to said sleeve and protruding from the upper part of the form, blocks carried on the post mem-

ber of the form slidably engaging said handle, and means carried by the blocks to lock the handle in adjusted positions.

4. In a garment form, a post member, adjustable sections carried thereby, a support movable longitudinally of the post member, arms connecting the support and adjustable sections and pivotally connected to said support at their inner ends, said support consisting of a plurality of plates, a pivot element common to all of said arms between said plates, and means to clamp the plates together upon said pivot element.

5. In a garment form comprising a plurality of adjustable sections, arms to adjust said sections, and a pivotal support for said arms consisting of a plurality of plates, a ring mounted between said plates, passing through the end of each arm to form a pivot element, and means to clamp said plates against said ring.

6. In a garment form comprising a plurality of adjustable sections, arms to adjust said sections, and a pivotal support for said arms consisting of a plurality of plates, having alining peripheral slots to receive the ends of said arms, a ring mounted between said plates passing through the end of each arm to form a pivot element, and means to clamp said plates against said ring.

7. In a garment form, a post member, a sleeve thereon, a ring in said sleeve, adjustable sections carried thereby, hinges connecting the waist sections and corresponding lowermost sections of the form, and adjustable arms pivotally connected, at one end, to said ring, the opposite ends of the arms being pivotally connected to said hinges and forming the pivot-member for said hinges.

In testimony whereof I hereunto affix my signature.

CHARLES A. UFFORD.