I. LEVIN.

GARMENT FORM.

APPLICATION FILED APR. 6, 1908.

905,334.

Patented Dec. 1, 1908.

4 SHEETS—SHEET 1.

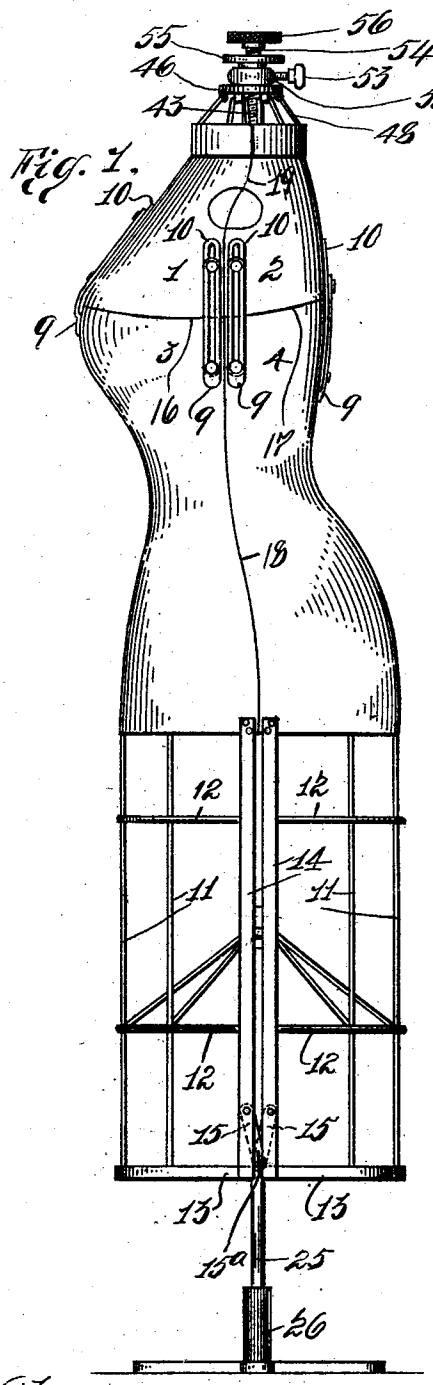


Fig. 1.

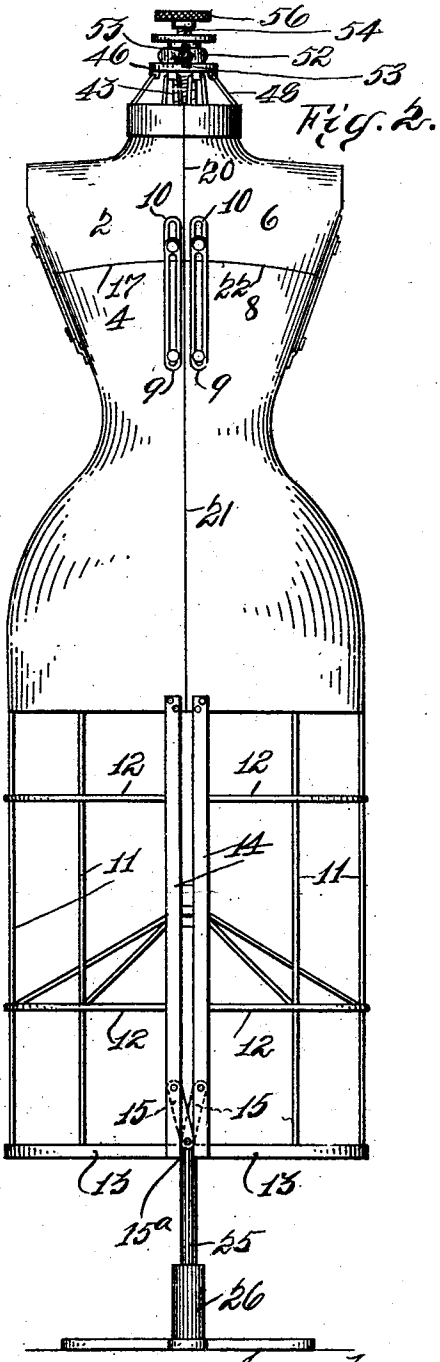


Fig. 2.

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4 SHEETS—SHEET 2.

Fig. 3.

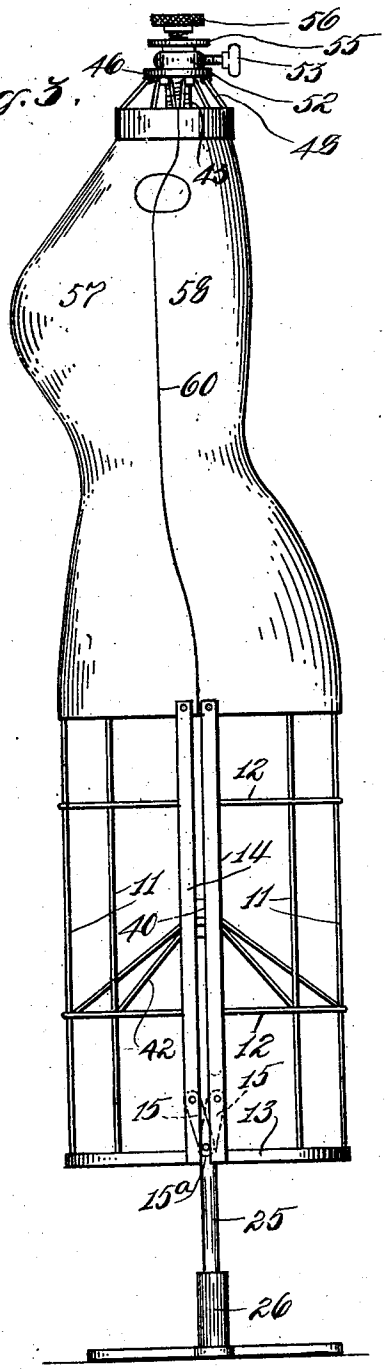
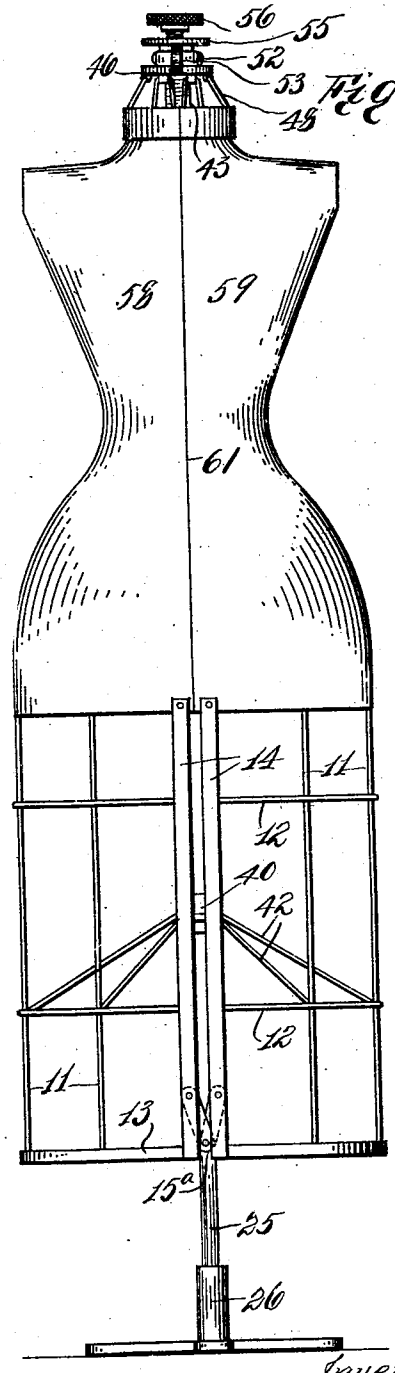


Fig. 4.



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4 SHEETS—SHEET 3.

Fig. 5.

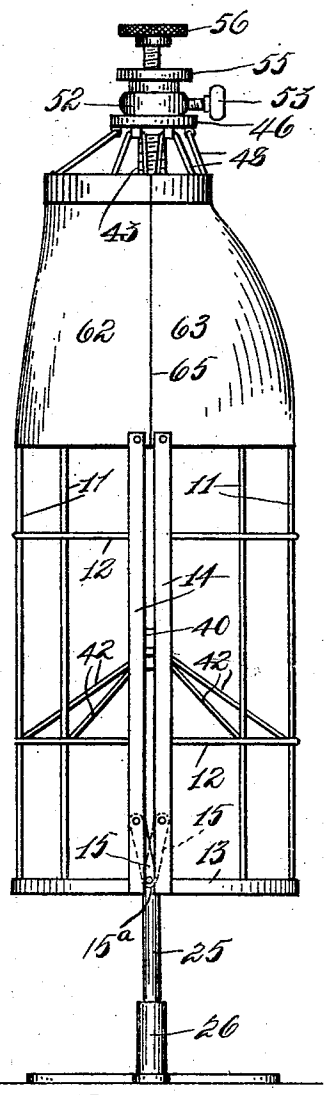
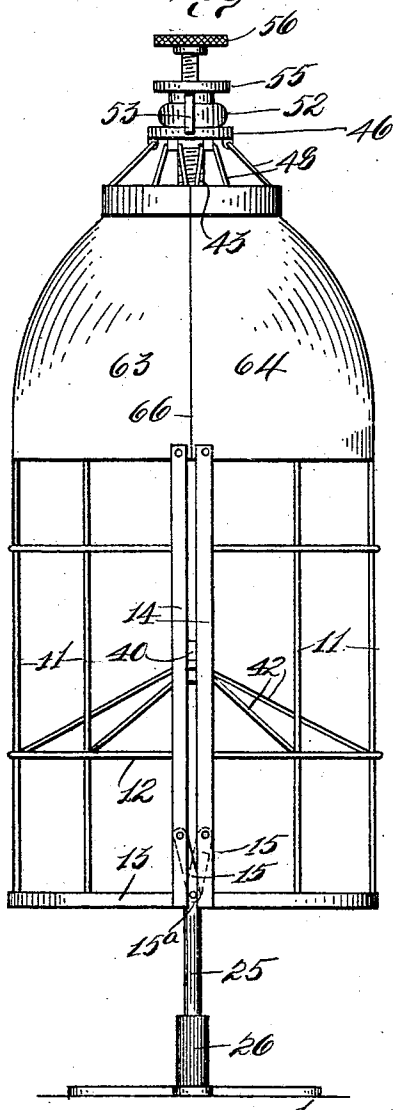


Fig. 6.



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4 SHEETS—SHEET 4.

Fig. 7.

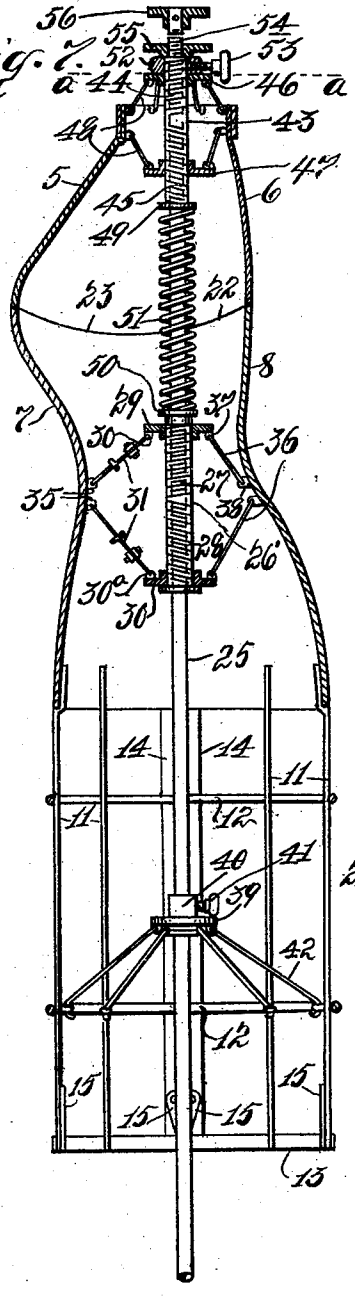


Fig. 8.

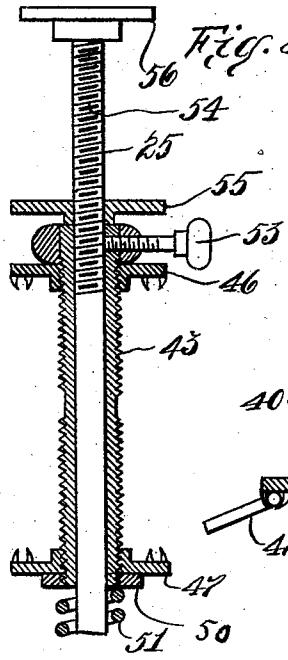
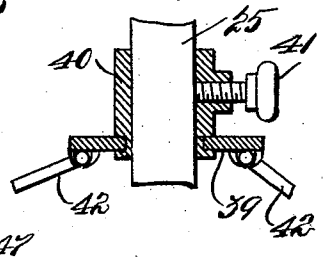


Fig. 9.



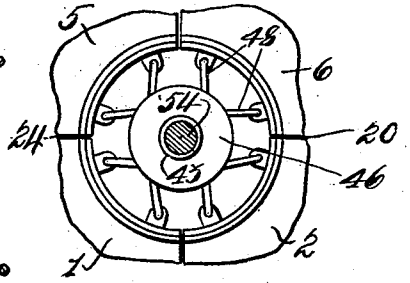
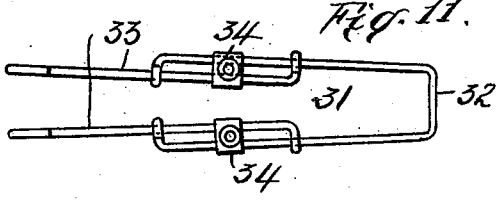


Fig. 10.

Fig. 11.



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UNITED STATES PATENT OFFICE.

ISAAC LEVIN, OF BROOKLYN, NEW YORK.

GARMENT-FORM.

No. 905,334. Specification of Letters Patent. Patented Dec. 1, 1908.

Application filed April 6, 1908. Serial No. 425,405.

To all whom it may concern:

Be it known that I, ISAAC LEVIN, a citizen of the United States, residing at Brooklyn, Kings county, State of New York, have invented certain new and useful Improvements in Garment-Forms, of which the following is a clear, full, and exact description.

This invention relates to adjustable sectional garment-forms, the object being to provide a garment form of this character that can be adjusted vertically as well as circumferentially, special independent means being provided to adjust the neck region of the said garment form.

To these and other ends, which will hereinafter appear, my invention comprises the novel features of improvement and arrangement and combination of parts which I will now proceed to describe and finally claim, reference being had to the accompanying drawings, forming part hereof, wherein—

Figure 1 illustrates a side elevation of my improved garment form, in a closed position; Fig. 2 is a rear view thereof; Fig. 3 is a side elevation of another form of my improved device comprising four sections; Fig. 4 is a rear view thereof; Fig. 5 is a side elevation of a skirt form embodying my improvements; Fig. 6 is a rear view thereof; Fig. 7 is a vertical central sectional view of my improved device as illustrated in Fig. 1; Fig. 8 is an enlarged vertical sectional detail view of the neck adjusting means, a portion of the coöperating springs being shown; Fig. 9 is an enlarged sectional detail view of the swivel bracket for the stays for the lower end of the garment form; Fig. 10 is an enlarged sectional top plan detail view of the neck region of the garment form the section being taken on a line *a*—*a* in Fig. 7; and Fig. 11 is an enlarged plan view of the adjustable stays for the waist region of the form.

Referring to the drawings, particularly to Figs. 1, 2 and 7, my improved garment form comprises eight sections, indicated by the numerals 1, 2, 3, 4, 5, 6, 7 and 8, the said sections being slidably connected by the slip joints 9 and 10, the under joints 10 being connected to the upper sections, and the top joints 9 being connected to the lower sections of the form. To the lower sections 3, 4, 7, and 8 I secure wires or rods 11, said wires being braced intermediate the ends thereof, by stays 12, and at the bottoms thereof by sectional bands 13. Each of the lower sections 3, 4, 7 and 8 is provided with vertical stays 14, to which the ends of the stays 12 are attached. Adjacent the bottom of the vertical stays 14 I pivotally secure one end of each member 15 of a toggle joint 15^a. The said toggle serves to brace as well as aid in the operation of adjusting the bottom of the form.

It will be seen, by referring to Figs. 1 and 2, that the upper portion, that is to say, the hip, waist and bust of the form, parts on the lines 16, 17, 18, 19, 20, 21, 22, 23 (lines 22 and 23 can be seen in Fig. 7) and 24 (see Fig. 10), whereby by the aid of a device, about to be described, the said sections can be caused to part and spread, thereby increasing the size of the figure; in other words, by spreading the said sections, the bust, waist and hip dimensions can be increased to any degree within the limits of the form. The sections which comprise the form are held on a support 25, which in turn is suitably supported by a stand 26. Adjacent to the waist region of the figure I secure to the support 25 a sleeve 26′ which is threaded, as at 27 and 28, right and left handed. The right hand threads 27 have in engagement therewith a nut 29 and the left hand threads 28 have in engagement therewith a nut 30. To the nuts 29 and 30 I pivotally secure as at 30^a, the adjustable braces 31, which are shown in detail in Fig. 11 and comprise the stationary fork 32 and the movable members 33, the said fork 32 and members 33 being adjustably secured together by the bolt, nut and washer as indicated at 34. The braces 31 are pivotally attached to the form as at 35. At the rear of the figure, I place the braces 36, which are attached to the nut 29, as at 37, and to the form as at 38. The braces 36 may or may not be adjustable. To adjust the lower end of the figure I provide a rotatable bracket 39, which is carried by a sleeve 40 rigidly secured to the support 25 by a set-screw 41, and I connect the bracket 39 with the wires 11 by the braces 42. Adjacent the neck portion of the form I slidably mount a sleeve 43, and on said sleeve, which is threaded right and left handed, as at 44, and 45, respectively, I place the nuts 46 and 47, which nuts are connected to the upper ends of the sections 1, 2, 5 and 6 by the stays 48, the said upper ends forming the neck portion of the figure. Around the support 25, and between the washers 49 and 50, I place

a spring 51. To the upper end of the sleeve 43 I secure a collar 52, in which a set-screw 53 fits. The set-screw 53 acts to bind the sleeve 43 and spindle 25 together to obtain certain results which will be hereinafter explained. The spindle 25 is threaded, as at 54, and upon said threads a hand-wheel 55 is adapted to work up or down. To the top of the support 25, I fasten a hand-wheel 56.

The operation of adjusting the form will now be described: Supposing the set-screw 53 to be screwed home, whereby the sleeve 43 is secured to the spindle 25 and cannot move. I then revolve the figure about the support 25, having first loosened the set-screw 41. The action of revolving the figure will cause the nuts 46, 47, 29 and 30 to approach each other, whereby the stays 48, 31 and 36 will cause the sections, to which they are attached, to part and move outwardly, whereby the dimensions of the bust, waist and hip regions will be increased. I can cause the said figure to assume the desired dimensions, to a greater or lesser degree, by the means above described. If it should be necessary to increase the distance between the neck region and waist region, after having increased the circumferential dimension of the form, I can do so in the following manner: The force which increases the distance between the neck and the waist line rests in the tension of the spring 51. To allow the spring 51 to expand, whereby the sleeve 43 is forced upward, I release the set-screw 53, thereby releasing the sleeve 43 from the support 25, and revolve the wheel 55 to the left, thereby causing it to travel upwardly. The tension of the spring 51, during the action of revolving the wheel 55, will cause the sleeve 43 to rise and carry the sections 1, 2, 5 and 6 upwardly, whereby the length between the neck and waist will be increased. To cause the said sections to go back to their normal position, I force the sleeve 43 downwardly against the tension of the spring by the wheel 55. When the form has been caused to increase circumferentially, in a manner hereinbefore described, I adjust the lower wire section of the form, to suit the change, by pulling out the toggles 16 and forcing the sleeve 40 downwardly and fasten it by means of the set-screw 41. When the upper sections 1, 2, 5 and 6 are forced upwardly by the spring 51, the slip-joints 9 and 10 keep the parts in alinement. The slip-joints 9 and 10 are preferably made from light resilient material, whereby the said joints will slightly give when the sections 1, 2, 5 and 6 are raised.

The form illustrated in Figs. 3 and 4 comprises four sections, three only being in view, the said three sections being indicated by 57, 58 and 59. The said sections part on the lines 60, 61. The lower end of this form is the same as described for Figs. 1, 2 and 7, the same numerals indicating similar parts. This embodiment of my invention is for a cheaper grade of garment form, there being no provision for altering the dimensions between the neck and waist portions. To alter the circumferential dimensions of the bust, waist and hip portions, the same device is employed as described for Figs. 1, 2 and 7.

The form illustrated in Figs. 5 and 6 is intended for skirts, and comprises four sections, three only being in view, the said three sections being indicated by 62, 63 and 64. The parting lines are indicated by 65 and 66. The lower or wire portion of the skirt form is the same as described for the other forms, similar characters indicating corresponding parts. In this form of device I preferably employ a device for altering the waist dimensions, the said device comprising the sleeve 43 spring 51, threaded spindle 25 and wheel 55, the action being the same as described for Figs. 1, 2 and 7. It is obvious from the description of the operation of the sleeve 43, spring 51 and wheel 55, that I can alter the dimensions of the neck in the form illustrated in Figs. 1, 2 and 7, and the dimensions of the waist, in the form illustrated in Figs. 5 and 6, without altering the circumferential dimensions of the rest of the form. By releasing the set screw 53 and slightly binding the sleeve 43 between the hand wheel 55 and spring 51, I can turn the said sleeve 43 whereby the nuts 46 and 47 will travel up or down on the sleeve 43 thereby altering the neck dimensions without disturbing the rest of the figure. This applies to the forms illustrated in Figs. 1, 2 and 7 and in Figs. 5 and 6. The spring 51 can be omitted in the skirt form if desirable.

Having now described my invention, what I claim and desire to secure by Letters Patent, is:

1. The combination of a support, a sectional garment-form having neck and waist portions supported thereby, means adapted to force the sections, comprising said form, outwardly, a slidable threaded sleeve carried by said support, adapted to alter the circumferential dimensions of the neck portion of said form, and adapted to alter the distance between the neck and waist portions of said form, releasable means adapted to secure said sleeve to said support, and a spring adapted to force said sleeve upwardly, when said sleeve is released.

2. The combination of a support, threaded on the upper end thereof, a sectional garment-form supported thereby, means carried by said support adapted to force the sections, comprising said form, outwardly, a slidable sleeve carried by said support, said sleeve being connected with the neck portion of said form, a spring carried by said sup-

port adapted to force said sleeve upwardly, and an adjustable hand wheel in engagement with the threads on the upper end of said support, adapted to secure said sleeve against movement, or to permit said sleeve to move upwardly.

3. In a rotatable sectional garment-form adapted for vertical adjustment and for circumferential adjustment, a stationary support, a plurality of sleeves carried by said support, said sleeves being provided, upon the periphery thereof, with right and left hand threads, nuts carried by said sleeves, means connecting said nuts and the sections of said garment-form, the sleeve adjacent the neck portion of said garment form, being slidably mounted on said support, releasable means adapted to secure the sleeve last named to said support, and a spring carried by said support adapted to force the sleeve last named, upwardly, when the securing means therefor is released.

Signed at New York city this 4th day of April 1908.

ISAAC LEVIN.

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ABRAM SHLIVEK.