

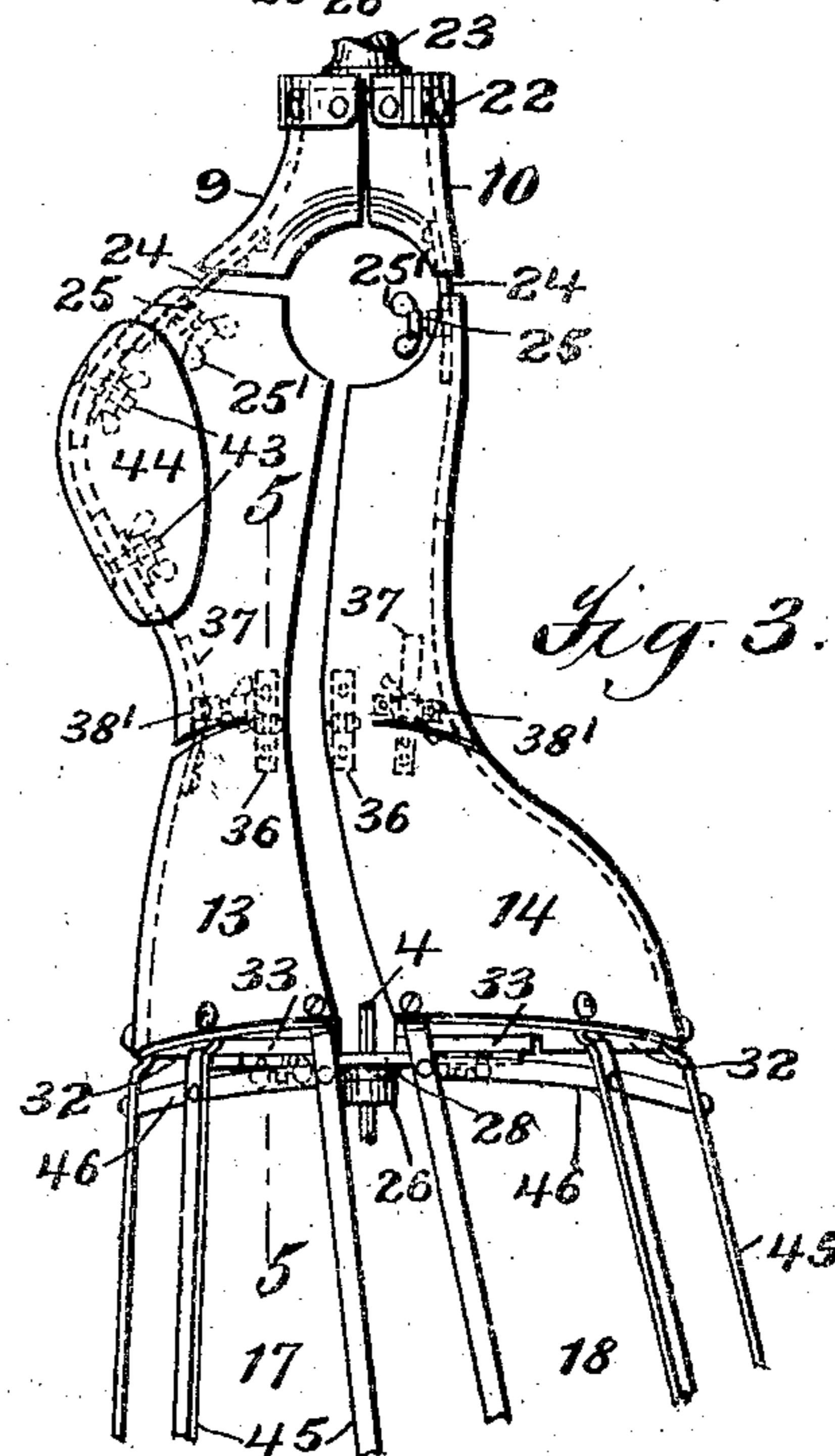
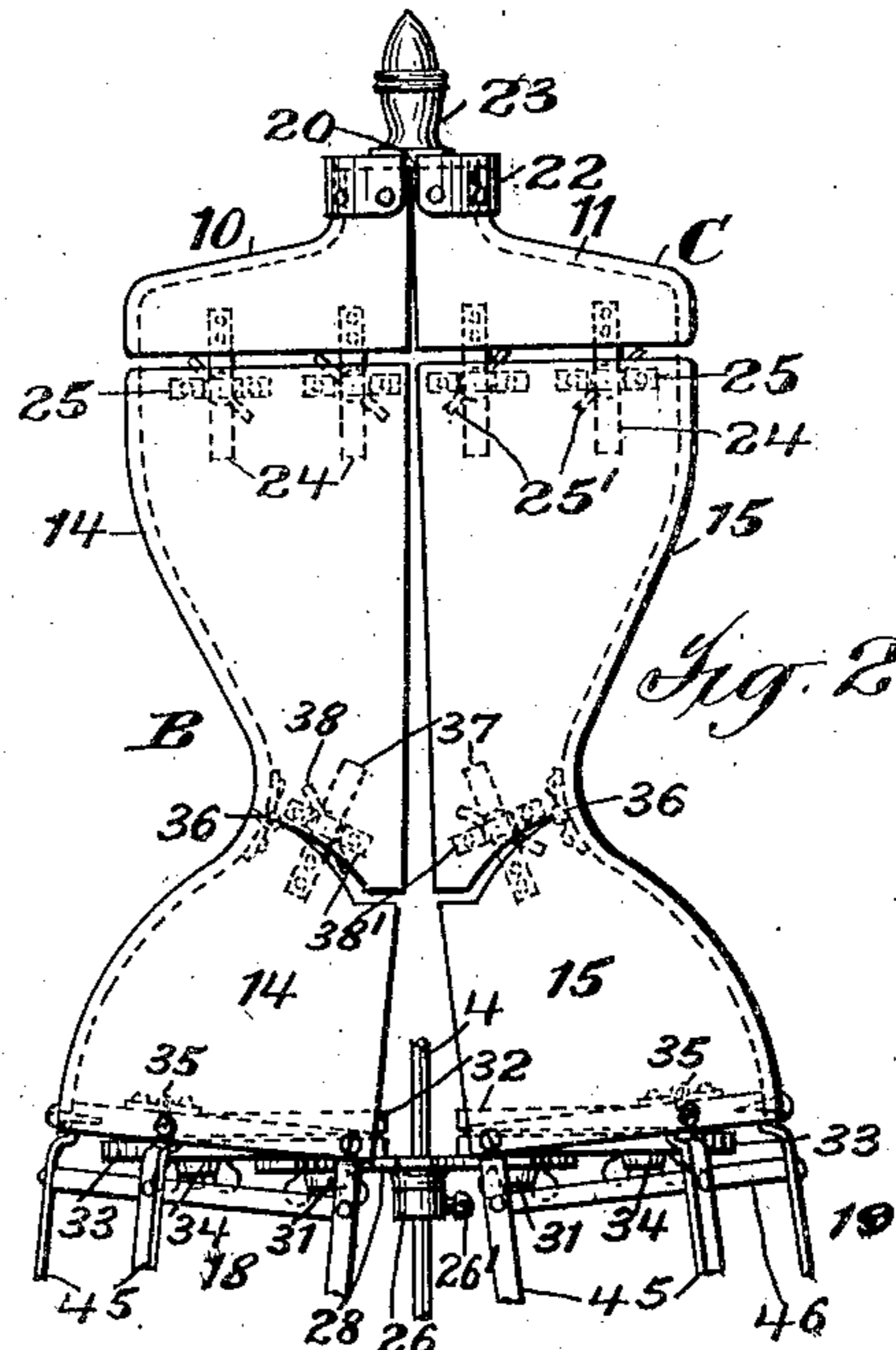
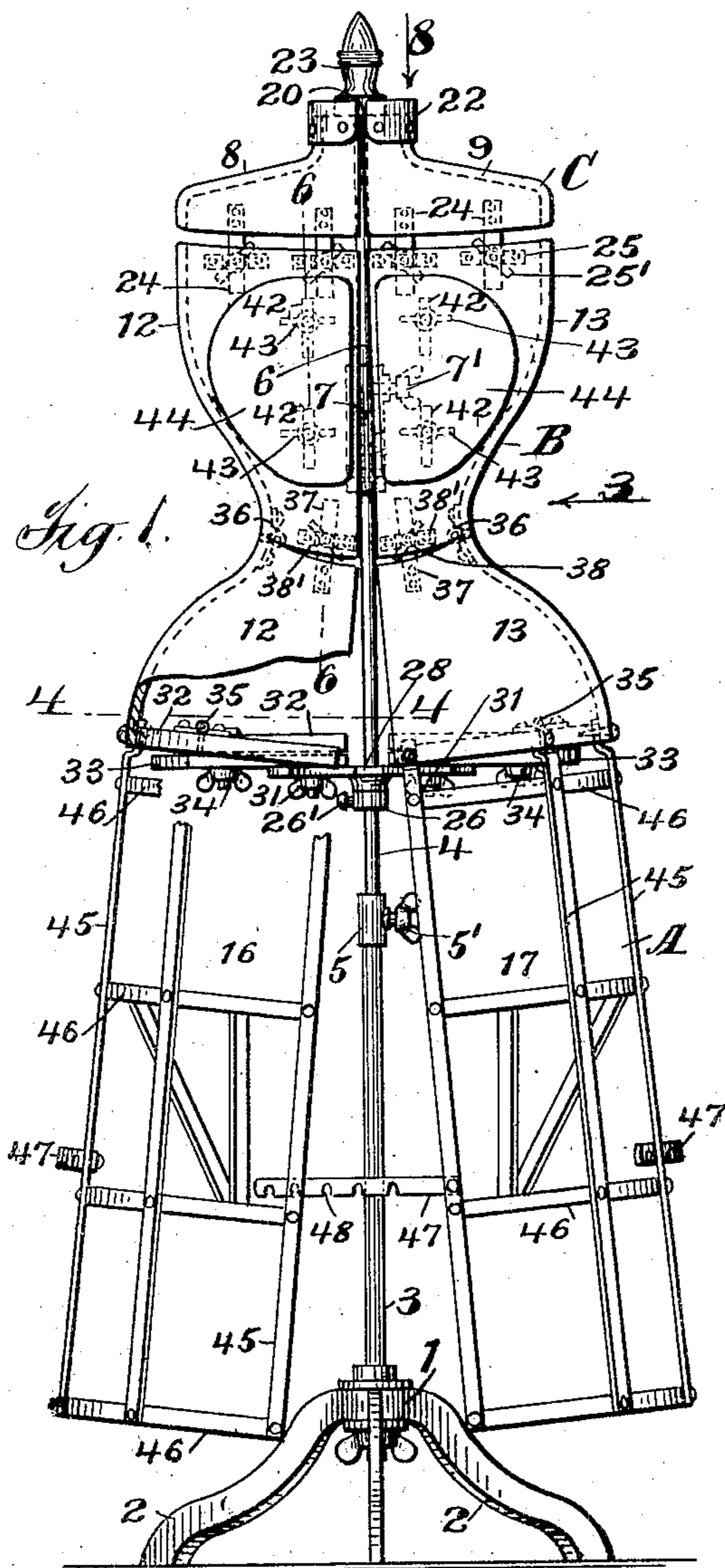
No. 836,893.

PATENTED NOV. 27, 1906.

P. F. QUINN.
GARMENT FORM.

APPLICATION FILED JAN. 27, 1906.

2 SHEETS—SHEET 1.



Witnesses
Philip N. Tilden.
J. F. Graves.

Inventor
Patrick F. Quinn
By his Attorneys
Philip N. Tilden, Rice & Kennedy

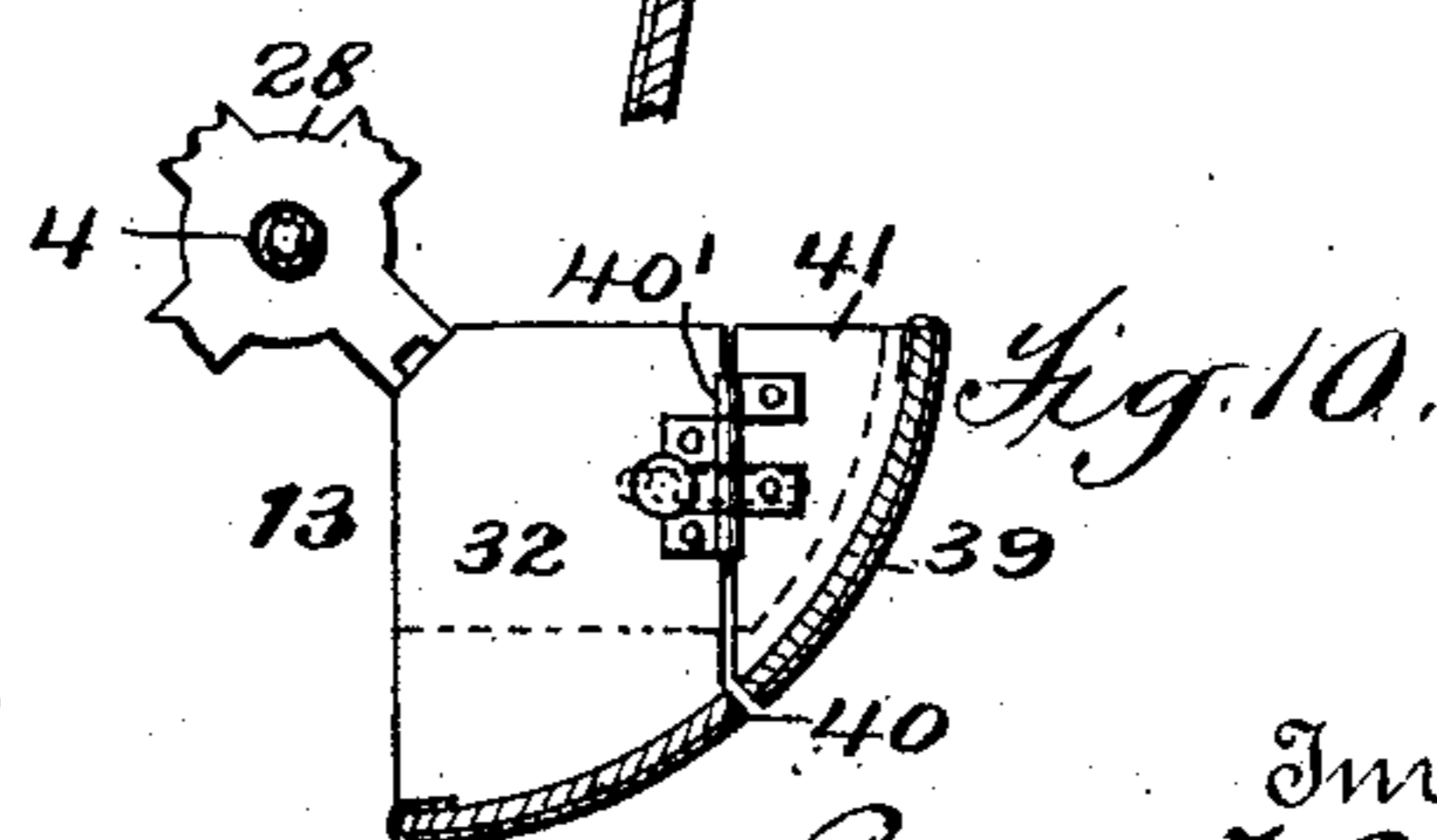
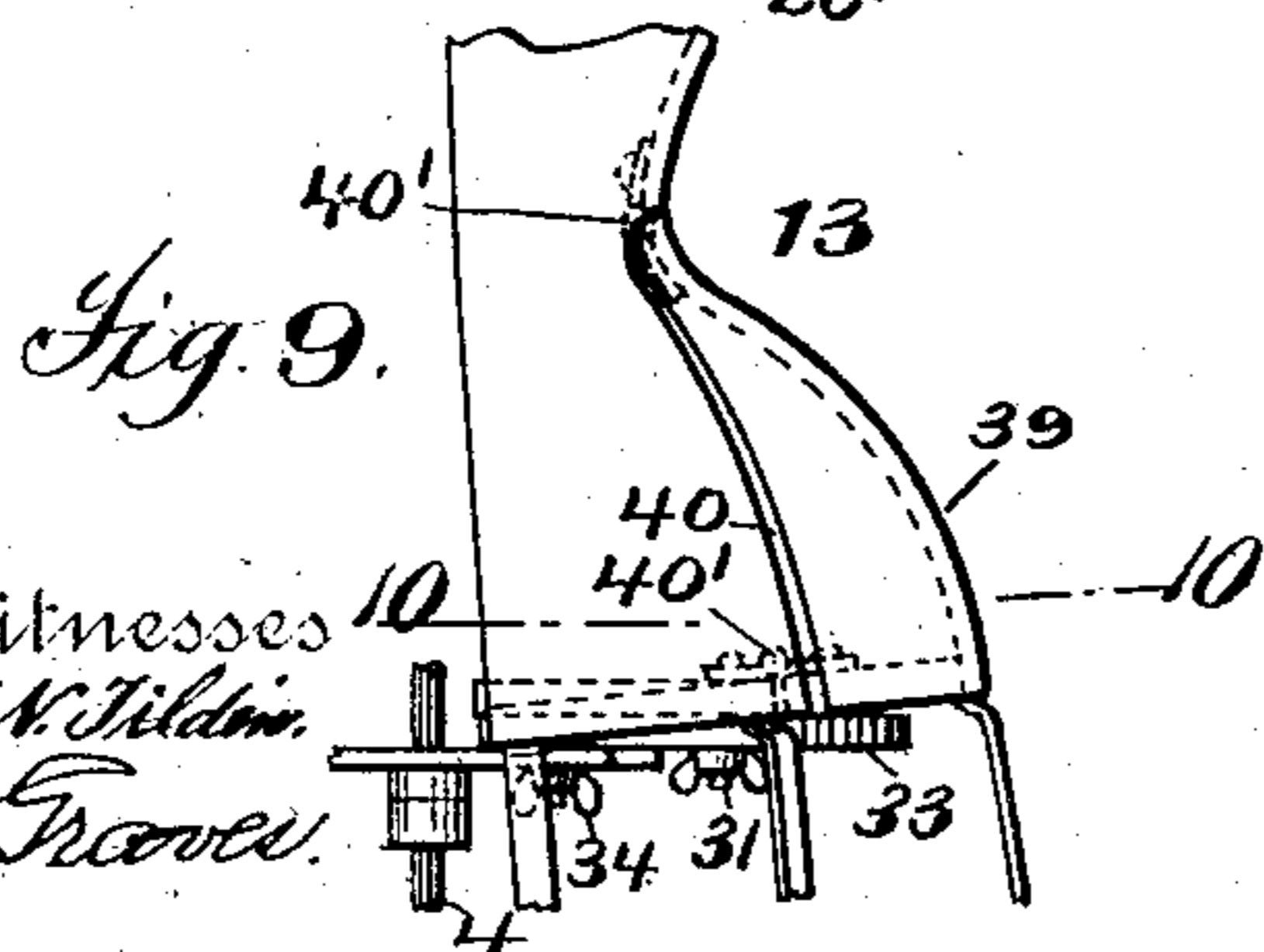
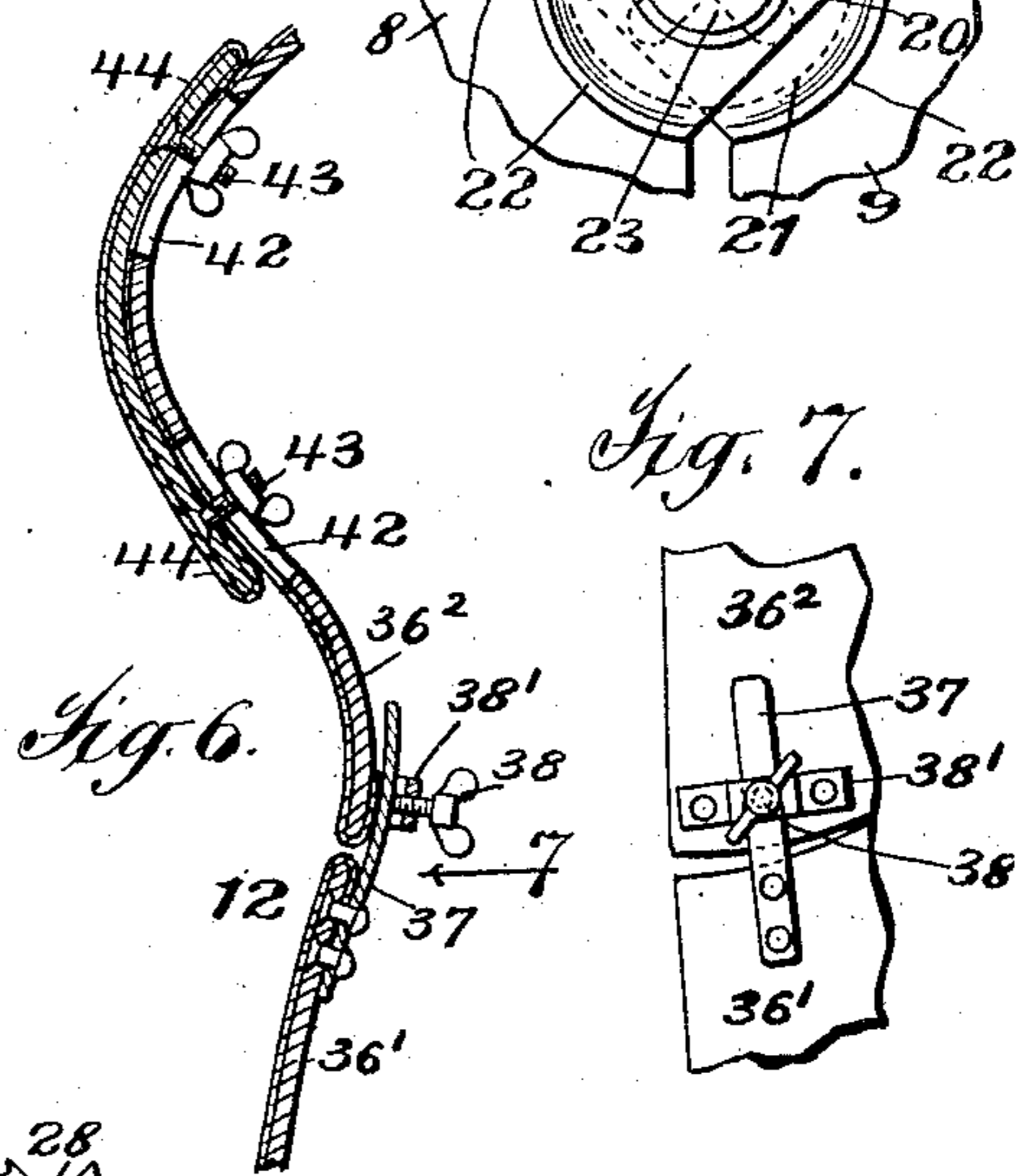
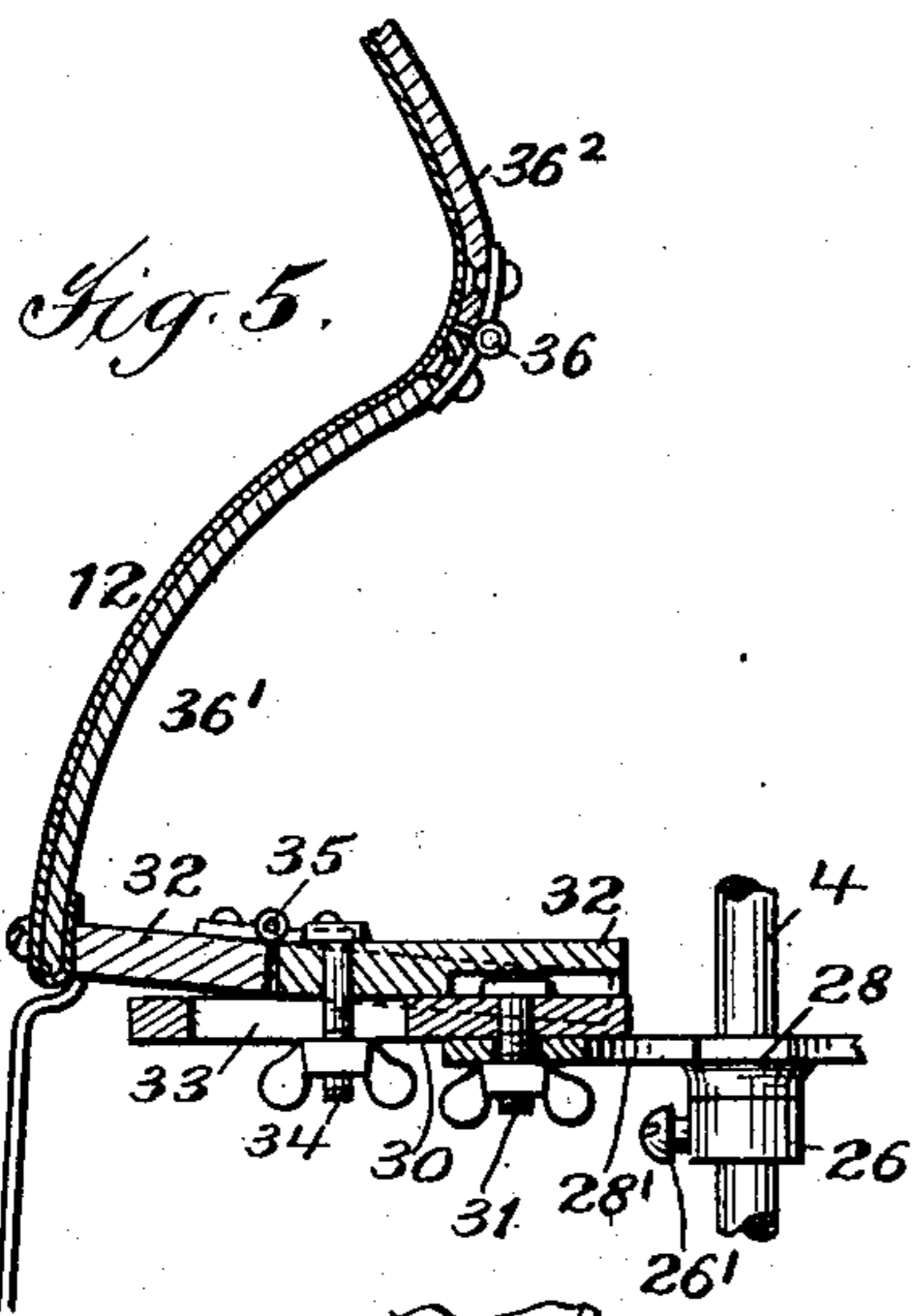
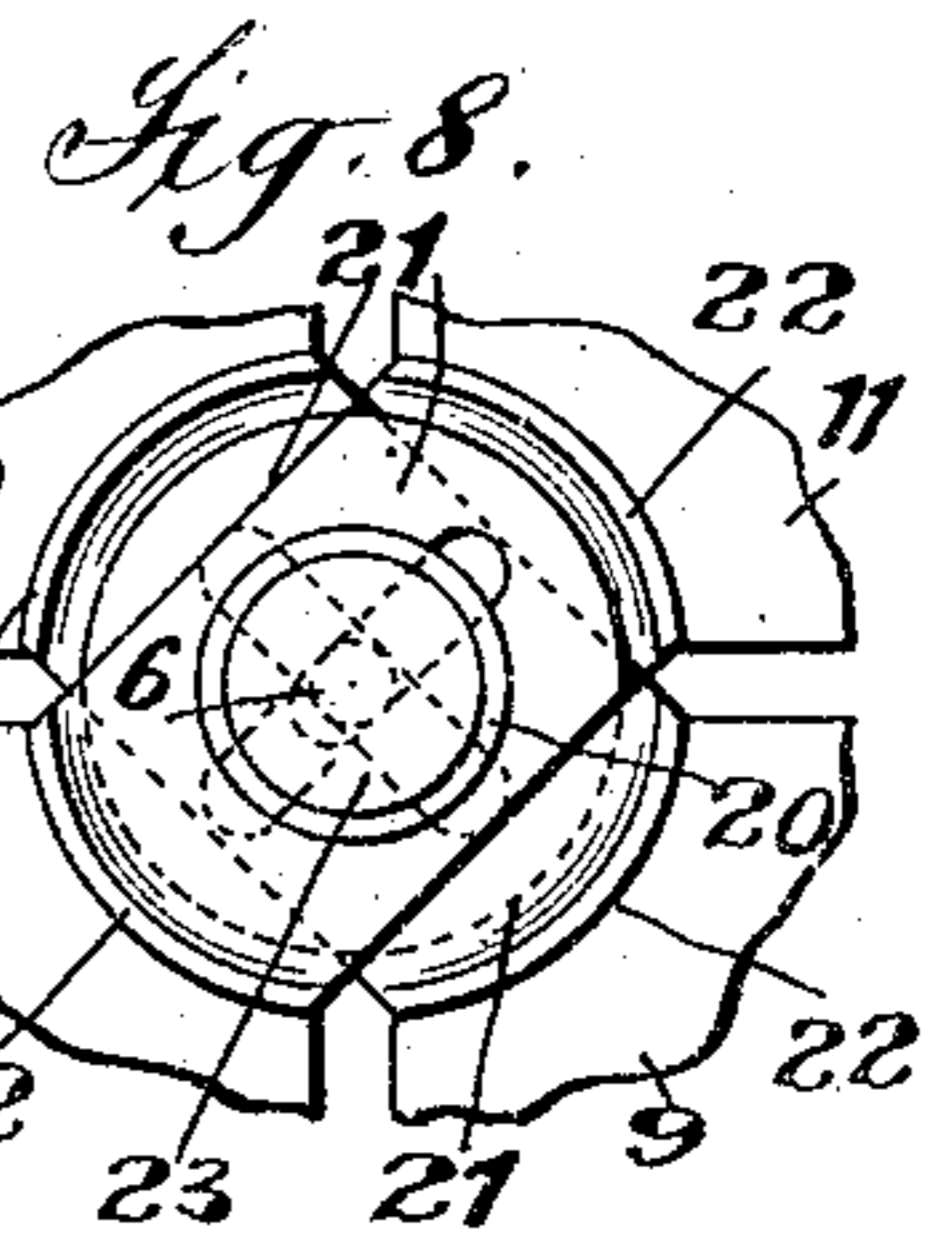
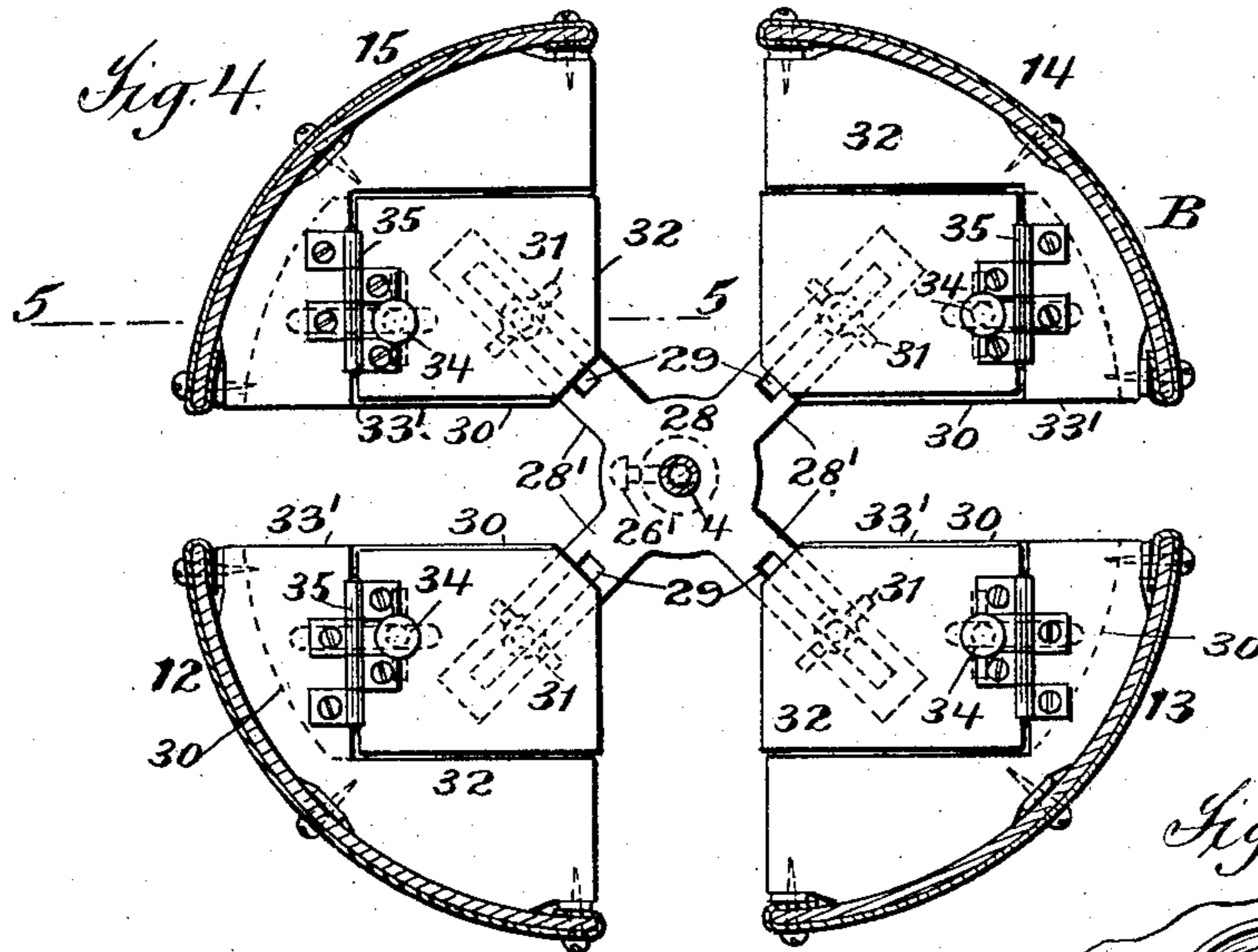
No. 836,893.

PATENTED NOV. 27, 1906.

P. F. QUINN.
GARMENT FORM.

APPLICATION FILED JAN. 27, 1906.

2 SHEETS—SHEET 2.



Witnesses
Philip N. Tildan.
J. A. Grover.

Inventor
Patrick F. Quinn
By his Attorneys
Philip Dwyer, R. H. Kennedy

UNITED STATES PATENT OFFICE.

PATRICK F. QUINN, OF NEW YORK, N. Y.

GARMENT-FORM.

No. 836,893.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed January 27, 1906. Serial No. 298,145.

To all whom it may concern:

Be it known that I, PATRICK F. QUINN, a citizen of the United States, residing at New York, county of New York, and State of New York, have invented certain new and useful Improvements in Garment-Forms, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention relates to improvements in garment-forms.

Garment-forms as now generally constructed are sectional—that is, the form comprises a plurality of sections having a relative adjustment with respect to each other, by which adjustment certain variations in the dimensions of the form may be secured. In the constructions heretofore employed, however, it has been impossible to adjust the sections so that hip portions or hips of the form may be increased or diminished without at the same time increasing or diminishing the waist of the form. In these prior constructions when it is desired to increase the hip portions and at the same time retain the same waist the hip portions are increased or diminished to the extent desired by properly adjusting the sections, which are then secured in position, and the waist is then brought to the desired dimensions by taping in the form at the waist—that is, by securing a tape or the like in any suitable manner around the form at the waist and drawing in or squeezing the sections of the form at that point into the desired position. These garment-forms are now generally constructed of papier-mâché or some such similar substance and are expensive, and this taping in of the form at the waist tends to break the form at the point where it is taped in, and thus renders it unserviceable after it has been in use for a short time. It is desirable, therefore, in this type of form to provide a construction by which the hip portions or hips of the form may be adjusted without necessitating the taping in of the form at its waist, thus avoiding damage to the form. It is, furthermore, desirable in this class of forms to provide a construction by which the hip portions or hips of the form may be so adjusted as to permit an increase in the hips of the form and at the same time retain the so-called “straight-front” effect, the dimensions of the form at its front or back being unchanged, such adjustment being desirable.

It is one object of the present invention to

provide a simple, cheap, and efficient construction by which these desired adjustments may be obtained.

It is a further object of the invention to provide an improved skirt-frame for the skirt portion of the form.

It is a further object of the invention to provide an improved construction by which the bust fullness of the form may be adjusted.

Referring now to the drawings, which illustrate one embodiment of the invention, and in which like characters of reference indicate like parts, Figure 1 is a front view of the garment-form, certain parts being broken away. Fig. 2 is a rear view of the improved form, a part of the skirt-frame being broken away. Fig. 3 is a side view looking in the direction of arrow 3 in Fig. 1, a part of the skirt portion being omitted. Fig. 4 is a plan view, partly in section, taken on line 4 4 of Fig. 1, showing the hip-adjusting mechanism. Fig. 5 is a view, partly in section, on an enlarged scale, taken on line 5 5, Fig. 3. Fig. 6 is a section, on an enlarged scale, taken on line 6 6 of Fig. 1. Fig. 7 is a detail looking in the direction of arrow 7, Fig. 6. Fig. 8 is a view looking in the direction of arrow 8, Fig. 1, showing the neck-adjusting devices. Figs. 9 and 10 show modifications of the hip-adjusting mechanism.

In the drawings, which illustrate the invention in one of its preferred forms, the form is shown as comprising what may be termed “three main portions”—a skirt portion A, a hip and bust portion B, and a shoulder and neck portion C—the construction of which portions will be hereinafter fully described. These various portions of the form are supported in any suitable manner. As shown, the supporting means include a standard 1, which has the usual supporting-legs 2. From this standard 1 rises a rod 3, which rod is a hollow one and receives a second rod 4, this rod 4 being adjustably secured within the rod 3 by a sleeve 5 and set-screw 5' and supporting the hip and bust portion B and the skirt-section A. The rod 4 is also a hollow rod and receives a rod 6, which rod supports the neck and shoulder portion C of the form, the rods 4 and 6 being adjustably connected by a sleeve 7 and set-screw 7'.

The shoulder and neck portion C and the hip and bust portion B each comprises a plurality of sections, the sections being formed

by dividing each portion vertically. The sections of one portion are arranged to have a relative adjustment with respect to each other and with respect to the sections of the other portion, by which adjustments certain variations in the dimensions of the form may be secured. The number of sections into which each portion is divided may be varied. The number of sections in each portion will, however, preferably be the same, and the construction and adjustment of these portions will now be described, the shoulder and neck portion C being for convenience described first. As shown, this shoulder portion C is divided vertically into four sections similar in construction and which are marked 8 9 10 11. These sections are supported by the adjustable rod 6, which is provided at its upper extremity with a supporting-plate 20. (See Fig. 8.) To the neck portions of each of the sections 8 9 10 11 is secured a slotted plate 21, one of these slotted plates being provided for each section and secured thereto by a divided collar or band 22. These slotted plates are supported on the plate 20 and are arranged to slide one on the other, the slots of two opposite plates coinciding. The slots of all the plates are engaged by the rod 6, which extends above the supporting-plate 20, and this extension is threaded and engages a handle-nut 23, (see Fig. 2,) positioned above the plates, by which the plates 21 may be securely fixed in position. These sections of the neck and shoulder portion of the form may thus by this construction be adjusted relatively to each other to vary the dimensions of that portion as desired. The sections 8 9 10 11 of this portion C of the form are adjustably connected with the hip and bust portion B, so as to have a relative adjustment thereto by metal straps or braces 24. These straps 24 may be adjustably secured in any suitable manner. As shown, (see Fig. 2,) each strap is secured at one end to a section of the portion C, the other end of the strap lapping over onto a section of portion B, this latter end of the strap being free to slide. On the section of portion B at or near its top is secured a strap or bar 25, such a strap or bar being provided for each brace 24. This strap 25 extends transversely over the brace 24 and carries a clamping-screw 25', by which the brace 24 is secured against movement when the sections are adjusted. This construction permits an adjustment between the shoulder and neck portion of the form and the hip and bust portion by which the height of the shoulder or neck portion may be increased or diminished relatively to the remainder of the form as desired.

As before stated, the hip and bust portion B of the form which will now be described, like the shoulder and neck portion C, com-

prises a plurality of sections which are formed by dividing the portion B vertically. The number of sections thus formed may be varied, but preferably and as shown is four. These sections are marked 12 13 14 15 and are supported in such a manner as to have a relative adjustment with respect to each other. As shown, there is provided on the rod 4 a sliding collar 26, provided with a set-screw 26', on which collar is carried a supporting-plate 28. This plate 28 has a plurality of radial arms 28', one such arm being provided for each section. The arms 28' are slotted, as at 29, and form tracks on which are carried movable supports of suitable construction, one for each section, these movable supports being shown as blocks or plates, (marked 30.) These supporting blocks or plates 30 are adjustable longitudinally of the arms 28' and are adjustably secured thereto by clamping-screws 31 working in the slots 29. The sections 12 13 14 15 of the hip and bust portion of the form are severally secured to these supporting-plates 30 by connections hereinafter described, so as to be movable therewith. By moving the blocks or plates 30 inward or outward from the center the ordinary adjustment in the dimensions of the form is secured—that is, the dimensions of the form are varied throughout both at the front and back, at the waist, and at the hips, as shown in plan in Fig. 4.

As before stated, it is desirable that a construction be provided by which the sections of the form may be so adjusted as to increase or diminish the hips of the form relatively to the waist, the hips being increased and the waist unchanged without necessitating the taping in or squeezing in of the waist heretofore referred to. Means are therefore provided for effecting this adjustment, such means including connections by which an adjusting movement may be given each section of the portion B independent of the adjusting movement given the sections by the supporting-plates 30, just described. These connections will now be described.

The movable supporting blocks or plates 30 support second blocks or plates 32, one such plate being provided for each section and to which the sections are secured in any suitable manner. These plates 32 are for a purpose hereinafter referred to made in two parts, hinged as at 35. The supporting blocks or plates 30 are slotted, as shown at 33, and the plates 32, to which the sections are attached, are adjustably positioned on the plates 30 by clamping-screws 34, working in the slots 33. The plates 32 are therefore adapted to receive an adjusting movement relatively to the plates 30, which support them. The slots 33 of the plates 30 are, as shown, (see Fig. 4,) positioned so that the plates 32 shall have a movement angularly or obliquely to the direction of movement of

the plates on the plate-arms 28', the direction of these slots being substantially parallel with the sides 33' of two adjacent sections. With this construction it will be seen that a sidewise adjusting movement may be given the sections which is independent of the movement given them by the supporting-plates 30. This sidewise adjusting movement allows the dimensions of the hip or hip portion of the form to be increased relatively to the front or back, thus permitting the hips or the hips and back of the form to be increased or diminished, at the same time retaining the so-called "straight-front" effect, such adjustment being accomplished by adjusting the back-sections 14 15 as desired by the supporting-plates 30, the hips being then adjusted by the plates 32, as described. To obviate the necessity of taping in the form or the waist, each of the sections 12 13 14 15 (see Fig. 1) is divided horizontally into two portions or parts which are hinged together by a hinge 36, such a hinge being provided for each section. These hinges are positioned, preferably, at or near one edge of each section, and at or near the other and opposite edge is provided an adjusting strap or brace 37. (See Fig. 6.) This strap or brace is similar in construction to the braces or straps 44, before described and is suitably secured at one end to the lower portion 36' of each section, the other and free end lapping over onto the upper portion 36², and is secured when adjusted by a clamping-screw 38, carried by a transverse strap or brace 38', which is positioned on the upper portion, the two portions thus being adjustable relatively to each other. This construction does away with the necessity of squeezing or taping in the form at the waist, as the lower portion of each section swings on the hinge 36 when the plate 32 is moved inward or outward to adjust the hips, as described, this swinging in or out on the hinge 36 being permitted by the hinge 35, and each section is secured in proper position and kept from springing out of position by the strap 37 and the clamping-screw 38. In Figs. 9 and 10 is illustrated one modification of this construction employed for adjusting the hips relatively to the waist. In this modification the sections 12 13 14 15 instead of being divided horizontally at or near the waist-line are divided vertically, as shown in Fig. 9, the line of division extending from at or near the waist-line down, that portion of each section forming the hip proper being thus separated from the rest of each section, this part being marked 39. In this construction the block or plate 32 is divided, as shown at 40, and the hip part or portion 39 is secured to the part 41, divided off from the block and hinged to the other portion of the section by a hinge 40'. In this construction the adjusting strap or brace 37 is

omitted. The supporting and adjusting connections for the hip portion or part 39 are similar to the connections hereinbefore described, which description is sufficient for an understanding of the same.

While the form so far described may be used for fitting waists, short coats, and the like and the construction described may be used in a bust-form simply, if desired, the improved garment-form has been shown as provided with a skirt portion, as such is in most instances necessary or desirable. This skirt portion (marked A in the drawings) may be of any suitable construction. As shown, it comprises a network of vertical ribs or straps 45, which join at suitable intervals with horizontal ribs 46, these ribs being formed, preferably, of metal straps of any suitable material—such as sheet-tin, for instance—and for a purpose hereinafter referred to, being pivotally secured together by riveting. As shown, furthermore, the skirt portion comprises a plurality of sections equal in number to the sections of the hip and bust portion, these sections being marked 16, 17, 18, and 19. Each of these sections is secured in any suitable manner to the corresponding section of the hip and bust portion and is supported thereby—that is, section 16 of the skirt portion is suitably secured to section 12 of the hip and bust portion, section 17 to section 13, and so on. With this construction the skirt-sections are adapted to receive the same adjusting movements as are given the sections of the hip and bust portions, and thus when the hip and bust portion is adjusted to increase the hips the skirt portion is likewise adjusted, but still retains its front lines, giving the straight-front effect to the skirt. These sections of the skirt portion A are firmly secured or locked together when in proper position by locking bars or braces 47, these locking bars or braces being provided with notches 48. As before stated, the metallic straps of which the skirt portion is formed are riveted together, so that when the sections of the skirt portion are adjusted the straps will not be twisted or torn apart at the joining-points, the rivets allowing a free play between the straps as the sections are swung in or out.

The portions B C of the form forming the bust and hip sections and the neck and shoulder sections may be made of any suitable material, as papier-mâché. This material will, however, be preferably covered with cloth or like material, to which the garment to be fitted may be readily pinned.

It is desirable in this class of garment-forms that some means be provided by which the bust fullness of the form may be adjusted and the bust-line raised or lowered relatively to the rest of the form. The means provided for accomplishing this purpose is preferably

in the form of an adjustable and detachable member, which may be put on and taken off the form as is necessary or desirable. As shown, the front sections 12 13 of the bust portion B of the form (see Figs. 1 and 6) are provided with slots 42, in which slots clamping-screws 43 work, which clamping-screws carry the detachable member 44, one such member, as shown, being provided for each section, though it is obvious that one such member could include both sections. This member 44, as shown, conforms to the configuration of the bust and is of any suitable or desirable dimensions. This detachable member 44 is also preferably of the same material as the bust-sections, this material being of such a character as to permit the garment draped on the form to be pinned thereto. By moving the clamping-screws 43 in the slots 42 the member 44 is raised or lowered, thus raising or lowering the bust-line relatively to the remainder of the form and increasing or decreasing the bust fullness.

What is claimed is—

1. A garment-form having a hip and bust portion divided vertically into a plurality of sections having a relative adjustment with respect to each other, a movable support for each section by which one adjusting movement is given to each section when its support is moved, and an adjustable hinged member carried by each support for giving each section a second adjusting movement independently of the movement given it by the support.

2. A garment-form having a hip and bust portion divided vertically into a plurality of sections having a relative adjustment with respect to each other, each of said sections being divided into two portions, a hinge between the portions, a movable support for each section by which one adjusting movement is given each section when its support is moved and an adjustable hinged member carried by each support to which one of the portions of each section is secured for giving it a second adjusting movement independent of the movement given it by the support.

3. A garment-form having a hip and bust portion divided vertically into a plurality of sections having a relative adjustment with respect to each other, each of said sections being divided horizontally into an upper and lower portion, a hinge between the portions, a movable support for each section by which one adjusting movement is given each section when its support is moved, and an adjustable hinged member carried by each support to which the lower portion of each section is secured for giving it a second adjusting movement independent of the movement given it by the support, said hinged member being movable angularly to said support.

4. A garment-form having a hip and bust

portion divided vertically into a plurality of sections having a relative adjustment with respect to each other, each of said sections being divided horizontally into an upper and lower portion, a hinge between the portions, a movable support for each section by which one adjusting movement is given each section when its support is moved, and an adjustable hinged member carried by each support to which the lower portion of each section is secured for giving it a second adjusting movement independent of the movement given it by the support, said hinged member being movable angularly to said support, and an adjusting-strap between the portions of each section.

5. A garment-form having a hip and bust portion divided vertically into a plurality of sections having a relative adjustment with respect to each other, each of said sections being divided horizontally into an upper and lower portion, a hinge between the portions, a movable support for each section by which one adjusting movement is given each section when its support is moved, a clamping-screw for securing the support, a slot in the support extending angularly thereto, an adjustable hinged member to which the lower portion of each section is secured carried by a clamping-screw working in the slot for giving said lower portion a second adjusting movement independent of the movement given it by the support, and an adjustable strap between the portions of each section.

6. A garment-form comprising a hip and bust portion divided into a plurality of sections having a relative adjustment with respect to each other, connections for giving two independent adjusting movements to each section, and a skirt portion comprising a plurality of sections secured to the corresponding hip and bust sections and adapted to simultaneously partake of the adjusting movements thereof.

7. A garment-form comprising a hip and bust portion divided into a plurality of sections having a relative adjustment with respect to each other, connections for giving two independent adjusting movements to each section, and a skirt portion comprising a network of metallic straps or braces pivotally secured together, said skirt portion comprising a plurality of sections secured to the corresponding hip and bust sections and adapted to simultaneously partake of the adjusting movements thereof.

8. A garment-form having a hip and bust portion divided into a plurality of sections, an adjustable detachable member for varying the dimensions of the form at the bust portion, and connections for securing the member to the form.

9. A garment-form having a hip and bust portion divided into a plurality of sections,

the sections forming the bust being slotted,
an adjustable detachable member for each
section for varying the dimensions of the
form at the bust portion of the sections, and
5 clamping-screws working in the slots for se-
curing the said members to their respective
sections.

In testimony whereof I have hereunto set
my hand in the presence of two subscribing
witnesses.

PATRICK F. QUINN.

Witnesses:

P. B. PHILIPP,
T. F. KEHOE.