Nov. 26, 1935. P. GILBERT 2,022,594

FIT FORM DRIER

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Fig. 1.

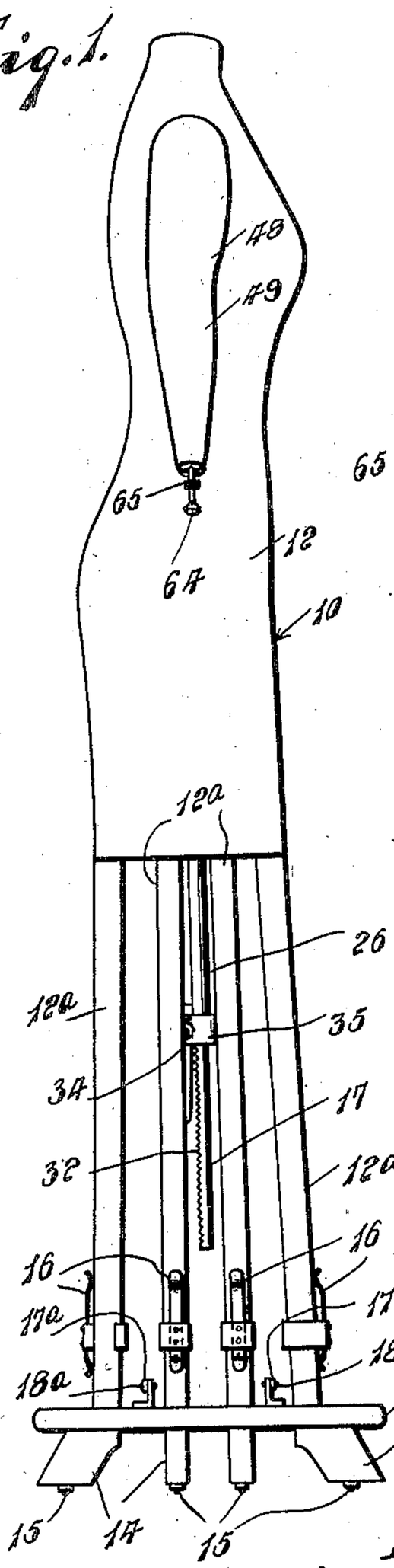


Fig. 2.

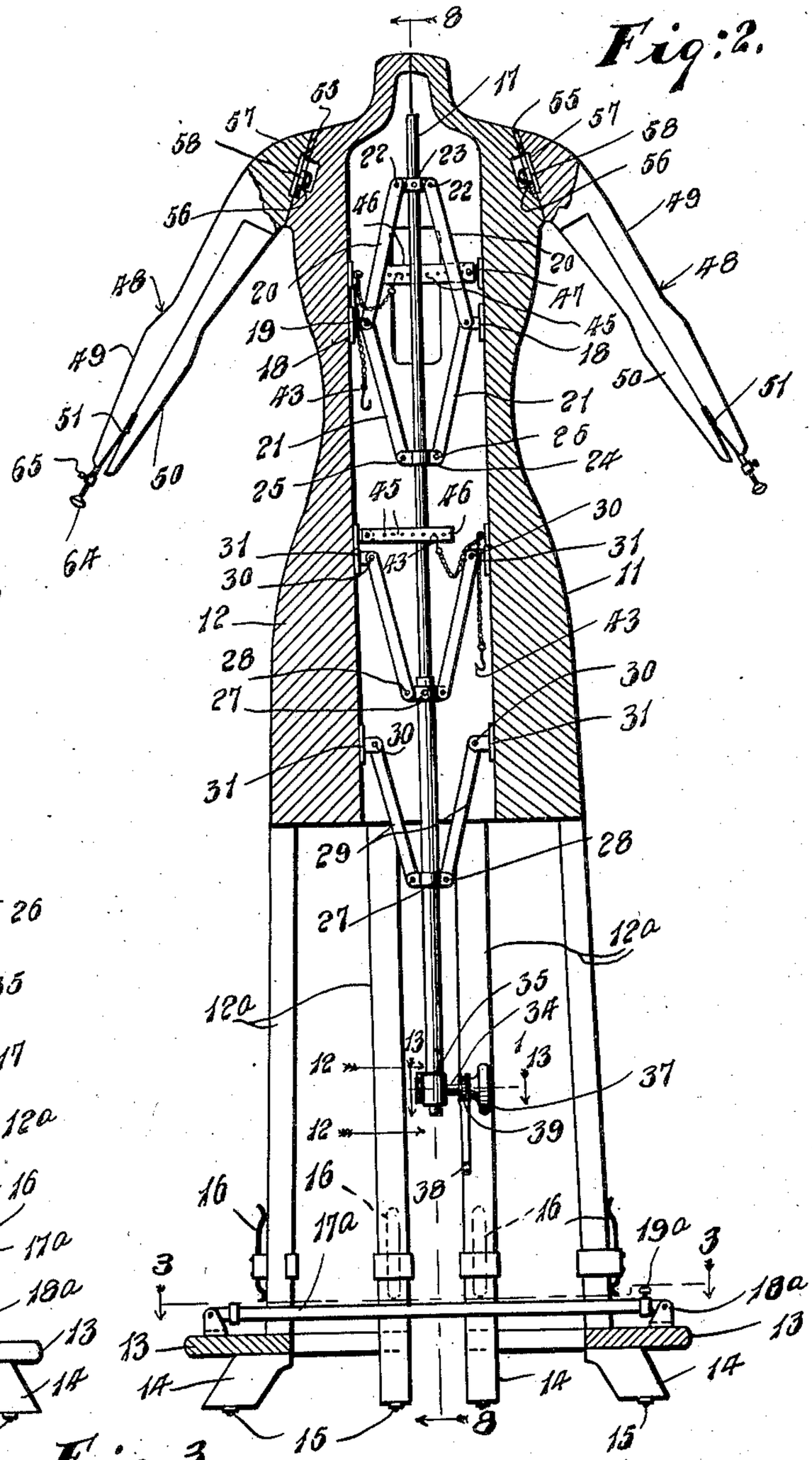
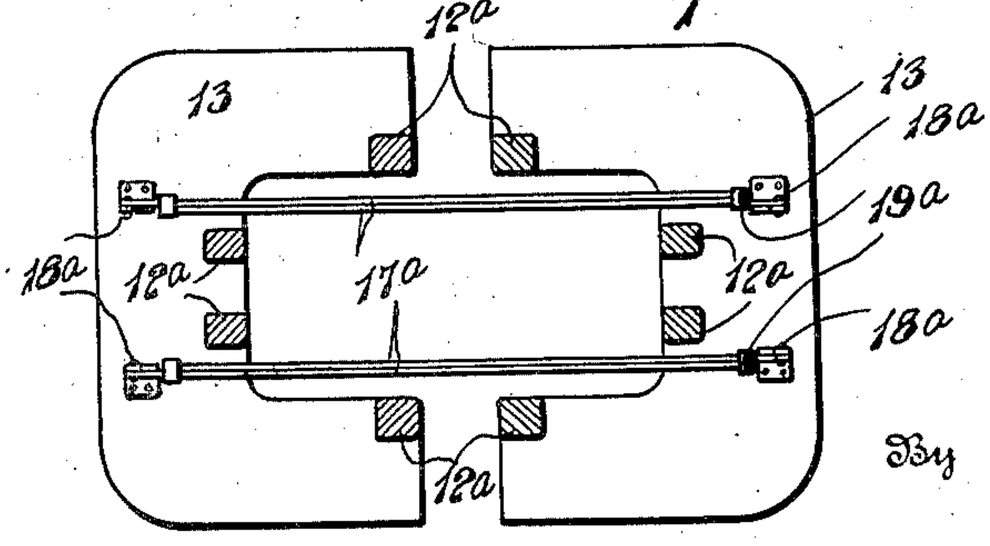


Fig. 3.



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Nov. 26, 1935. P. GILBERT 2,022,594

FIT FORM DRIER

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Fig. 4.

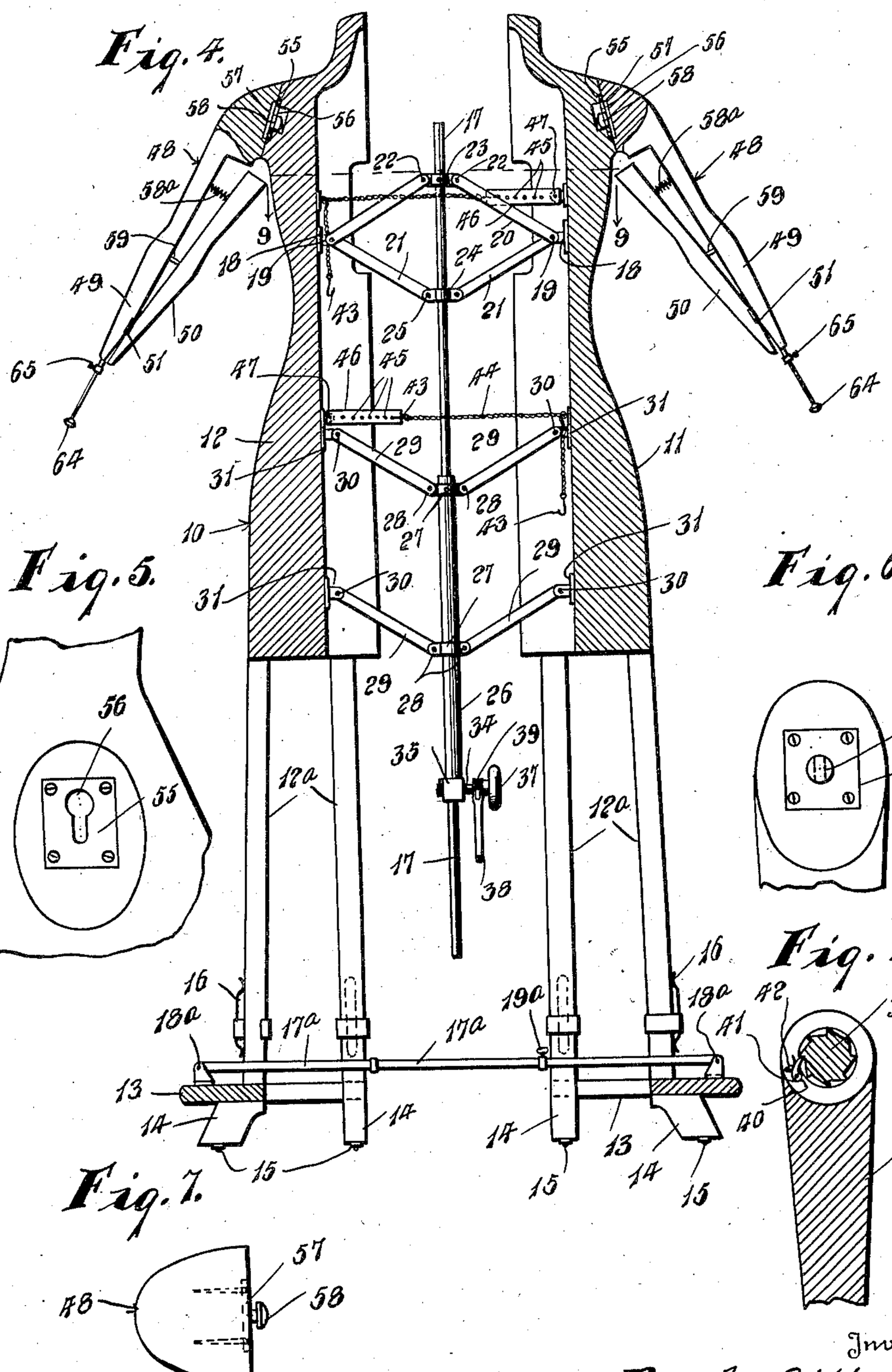


Fig. 5.

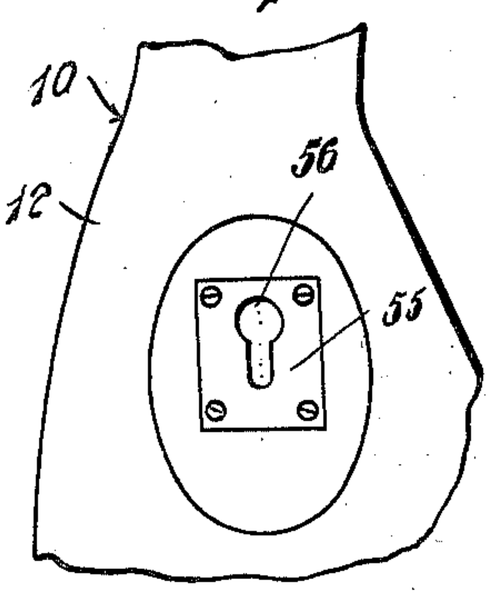


Fig. 6.

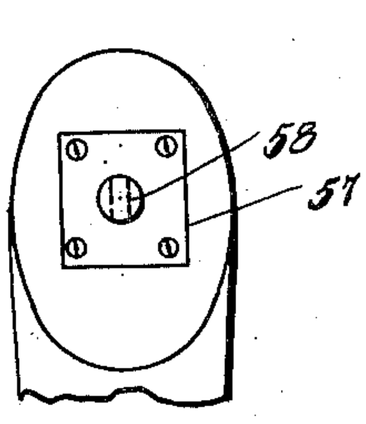


Fig. 7.

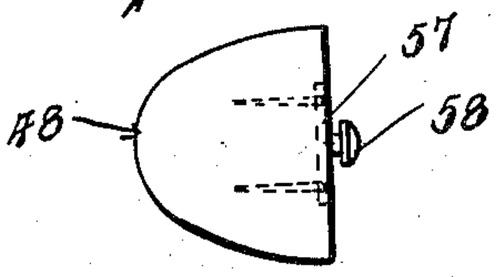
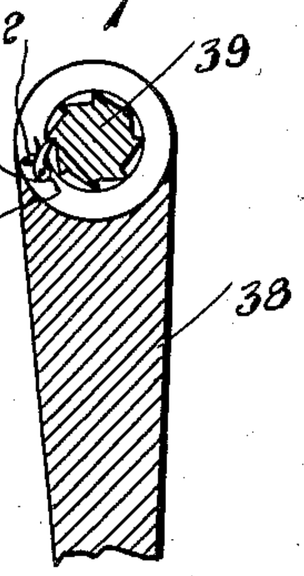


Fig. 14.



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Nov. 26, 1935. P. GILBERT 2,022,594

FIT FORM DRIER

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Fig. 8.

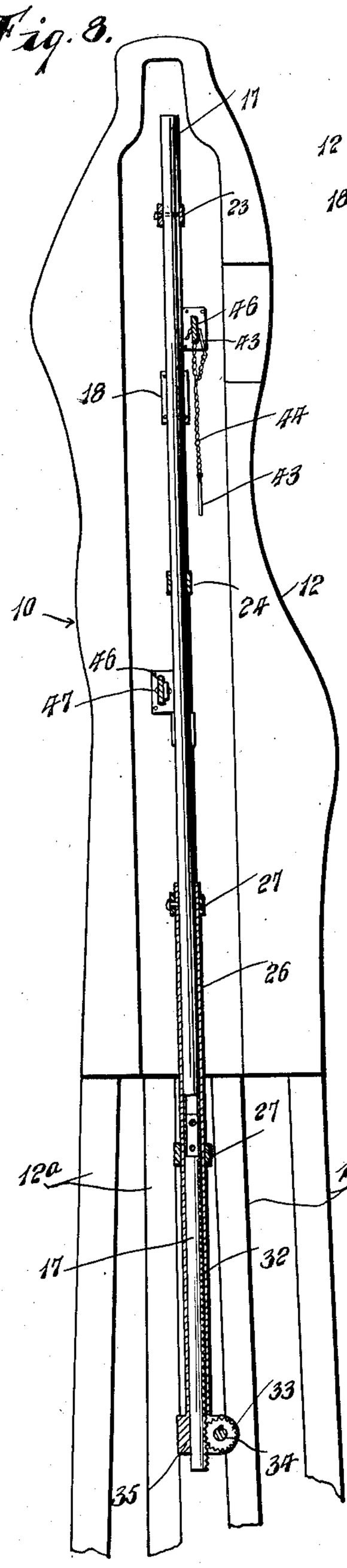


Fig. 9.

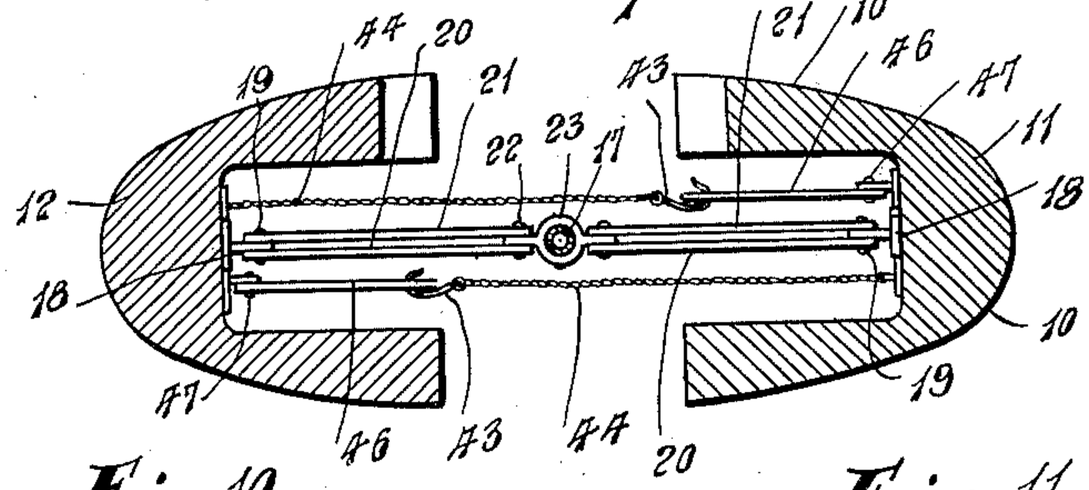


Fig. 10.

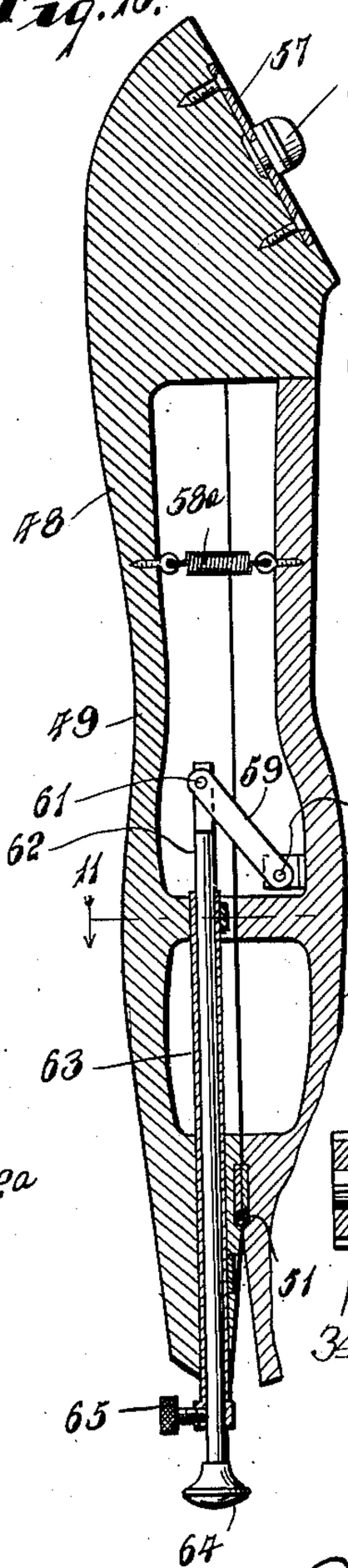


Fig. 11.

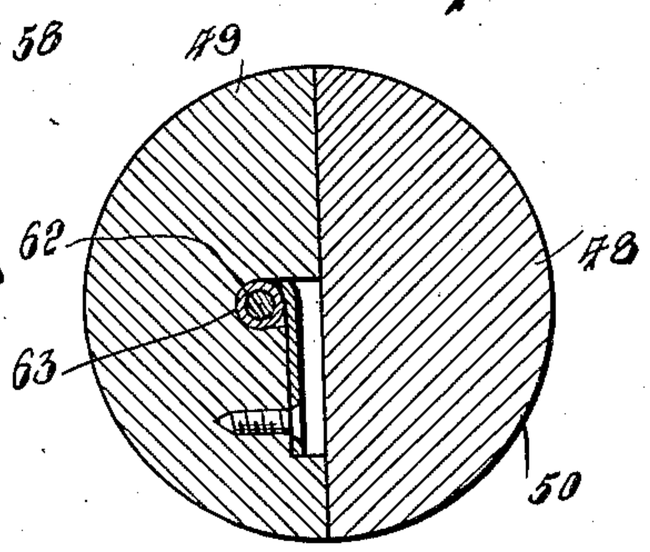


Fig. 12.

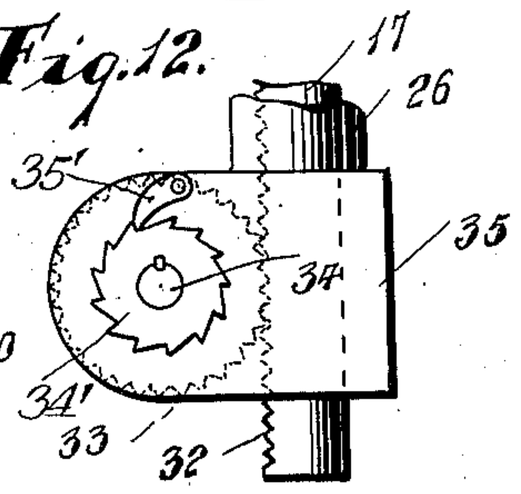
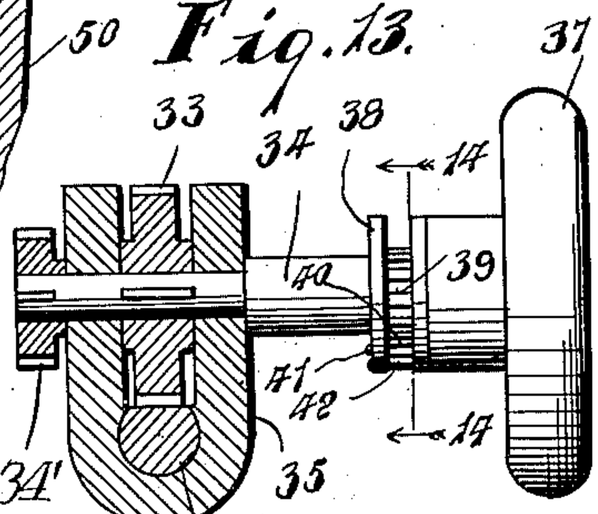


Fig. 13.



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2,022,594

UNITED STATES PATENT OFFICE

2,022,594

FIT FORM DRIER

Paul Gilbert, Waupun, Wis.

Application June 21, 1934, Serial No. 731,739

3 Claims. (Cl. 223—68)

This invention relates to a structure for holding articles of clothing while drying, in the same form in which they fit the human body or parts thereof, and it is aimed to provide a novel and highly efficient structure for this purpose.

More particularly it is aimed to provide a means whereby the drier has a body capable of adjustment as to which, in a novel manner, and which has arms also adjustable as to width in a novel manner, to the end that the device will fit the garment according to the form in which it is worn.

The more specific objects and advantages will become apparent from a consideration of the description following taken in connection with accompanying drawings illustrating an operative embodiment.

In said drawings:—

Figure 1 is a view of the apparatus in side elevation,

Figure 2 is a central vertical sectional view taken at a right angle to Figure 1.

Figure 3 is a horizontal sectional view taken on the line 3—3 of Figure 2,

Figure 4 is a view similar to Figure 2 but with the body sections in spread position,

Figure 5 is an enlarged sectional view of one of the sockets of the body adapted for connection of the arm,

Figure 6 is a front view of the arm and stud for connection to said socket,

Figure 7 is an end view of the arm,

Figure 8 is a vertical sectional view taken on the line 8—8 of Figure 2,

Figure 9 is a horizontal sectional view taken on the line 9—9 of Figure 4,

Figure 10 is a longitudinal sectional view through one of the arms,

Figure 11 is a cross sectional view taken on the line 11—11 of Figure 10,

Figure 12 is an enlarged detail of the lower end of the gearing to effect spreading of the body sections,

Figure 13 is a detail section taken on the line 13—13 of Figure 2,

Figure 14 is a detail section taken on the line 14—14 of Figure 13.

Referring specifically to the drawings, the structure has a body at 10, the upper portion of which, at least, conforms exactly or substantially to that of the human body, so that garments may be positioned on the body 10 for drying and will have a form fit with the body during the period of drying. Such body 10 is preferably made in two sections 11 and 12, separable along a central line as shown in Figures 2, 3, and 4. Any suitable number of legs, for instance four as shown, at 12a depend from the body section 10 and are connected to shelves 13 from which feet 14 depend, and which are preferably equipped with casters at 15. It will be noted that each leg 12a is provided with a spring clasp 16 adjacent the shelves 13, and that the rods 17a are fastened at 18a to the shelves. Said rods 17a are in telescopic relation and adapted to be secured rigidly together at different adjustment through manipulation of a set screw 19a.

In order to spread the sections 10 to the desired extent according to the size of the garment to be dried, a central vertical rod or shaft 17 is provided. The interior of the body sections 10 is hollow and connected therein are brackets 18, to which are pivoted at 19, links 20 and 21. Links 20 are uppermost and are pivoted at 22 to a cross member 23 rigidly connected to the shaft 17. The links 21, however, are pivoted to a cross member 24 at 25, the cross member 25 being slidable on the shaft 17. Shaft 17 is slidably mounted in a tube 26 to which cross members 27 are fastened, and which in turn have pivoted thereto at 28, links 29, in turn pivoted at 30 to brackets 31 fastened to the body sections 10.

Shaft 17 at the lower portion thereof is provided with rack teeth at 32 with which a pinion 33 is enmeshed, being keyed to an operating shaft 34. Shaft 34 is journaled in a housing 35 forming an enlargement at the lower end of the sleeve 26 and is preferably turned manually by a knob 37, but where the power necessitates greater leverage, the lever 38 may be actuated, (Figures 2, 13, and 14). This lever 38 normally hangs on the shaft 34, about a ratchet portion 39 formed on the shaft, and which is engageable by a pawl 40 carried by the lever, the pawl being provided at 41 to the lever and spring-pressed against ratchet as at 42. Normally the presence of the lever 38 does not interfere with operation of the shaft 34 through turning of the knob 37. As best shown in Figure 12, a spring actuated pawl 35′ is pivotally mounted on housing 35, and, by engaging ratchet 34′, keyed to shaft 34, holds the shaft in adjusted positions.

Through the turning of the knob 37 or lever 38 as the case may be, the gearing 33—32, causes the shaft 17 to lower from the position shown in Figure 2, to that shown in Figure 4, or to any intermediate position, effecting movement of the various links, so that the body sections 11 are spaced apart. Spacing of such sections may be adjustably limited, according to the size of the

garment, and through the engagement of hooks 43 on chains 44 secured to the body sections 11, with anyone of the series of openings 45 on leaves 46 hinged as at 47 to the body sections so that they may be folded into non-interfering position. It will be noted that two chains 44 are used at each location and that each chain is of a different length, thus adapting the device to better accommodate garments of different sizes.

The body is preferably provided with arms as at 48, which arms are preferably in sections 49 and 50, hinged together as at 51, so that they may be of the form shown in Figure 10 or expanded to that shown in Figure 4. The arms are also detachably connected to the body sections 11. To this end, the body sections 11 are equipped with socket plates 55, provided with keyhole slots at 56 and the arm sections 49, in turn have plates 57 equipped with offset studs 58, adapted for detachable engagement in said keyhole slots 56.

The arm sections 49 and 50 are urged together by a contractile spring connected thereto as at 58a. To enable the arm sections to be expanded, a link 59 is pivoted as at 60 to the arm section 50 and at 61 to a rod 62 which is slidably passed through a sleeve 63 rigidly secured within the arm section 49. A knob 64 may be provided on the rod 62 and a set screw 65 preferably provided on the sleeve 63 and adapted to bind against the rod 62 in adjusted position.

It will thus be seen that a dress or other garment to be dried is draped over the form and the form thereupon operated to stretch the dress or fill the same so that it will dry in a natural form or the form in which it fits the body. It is clear that the lower end of the dress may be retained by engagement with the clasps 16. At the same time, the arms 48 are adjusted so as to fit or fill the arms of the garment.

Various changes may be resorted to provided they fall within the spirit and scope of the invention.

I claim as my invention:—

1. A drier form of the class described comprising a body, said body formed of sections, links pivoted to the sections, relatively movable rods in telescopic engagement to which the links are pivoted so that operation of the rods will contract and expand the sections, a leaf pivoted to one of the sections, and a flexible element attached to one of the form sections and having a terminal hook engageable with the leaf.

2. A drier form of the class described comprising a body, said body formed of sections, links pivoted to the sections, relatively movable rods in telescopic engagement to which the links are pivoted so that operation of the rods will contract and expand the sections, one of said rods having rack teeth, a shaft, a pinion on said shaft enmeshed with said rack teeth, a lever loosely suspended on said shaft, a ratchet member on said shaft, and a pawl on the lever to engage the ratchet teeth and normally permitting rotation of the shaft independently of operation of the lever.

3. A drier form of the class described comprising a body, said body formed of sections, links pivoted to the sections, relatively movable rods in telescopic engagement to which the links are pivoted so that operation of the rods will contract and expand the sections, one of said rods having rack teeth, a shaft, a pinion on said shaft enmeshed with said rack teeth, the rod in which the last mentioned rod is disposed having a housing about said pinion and in which said shaft is journaled, and means to operate said shaft.

PAUL GILBERT.