

G. M. CHAMPAGNE.
ABDOMINAL SUPPORTER.
APPLICATION FILED OCT. 19, 1910.

1,003,336.

Patented Sept. 12, 1911.

3 SHEETS-SHEET 1.

Fig. 3

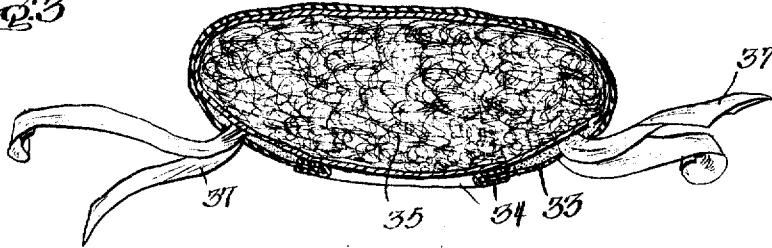
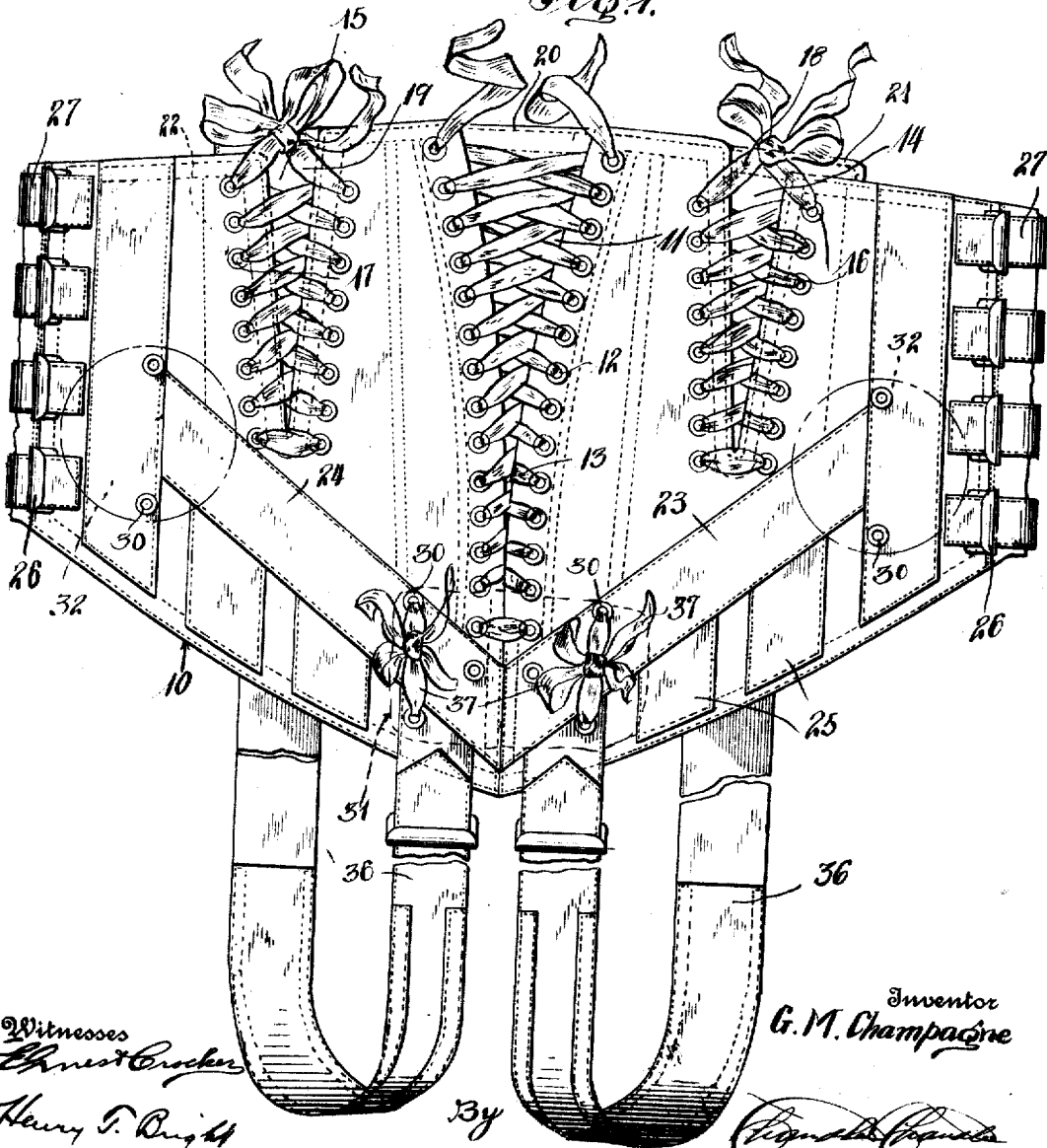


Fig. 1.



Witnesses
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Harry T. Ring

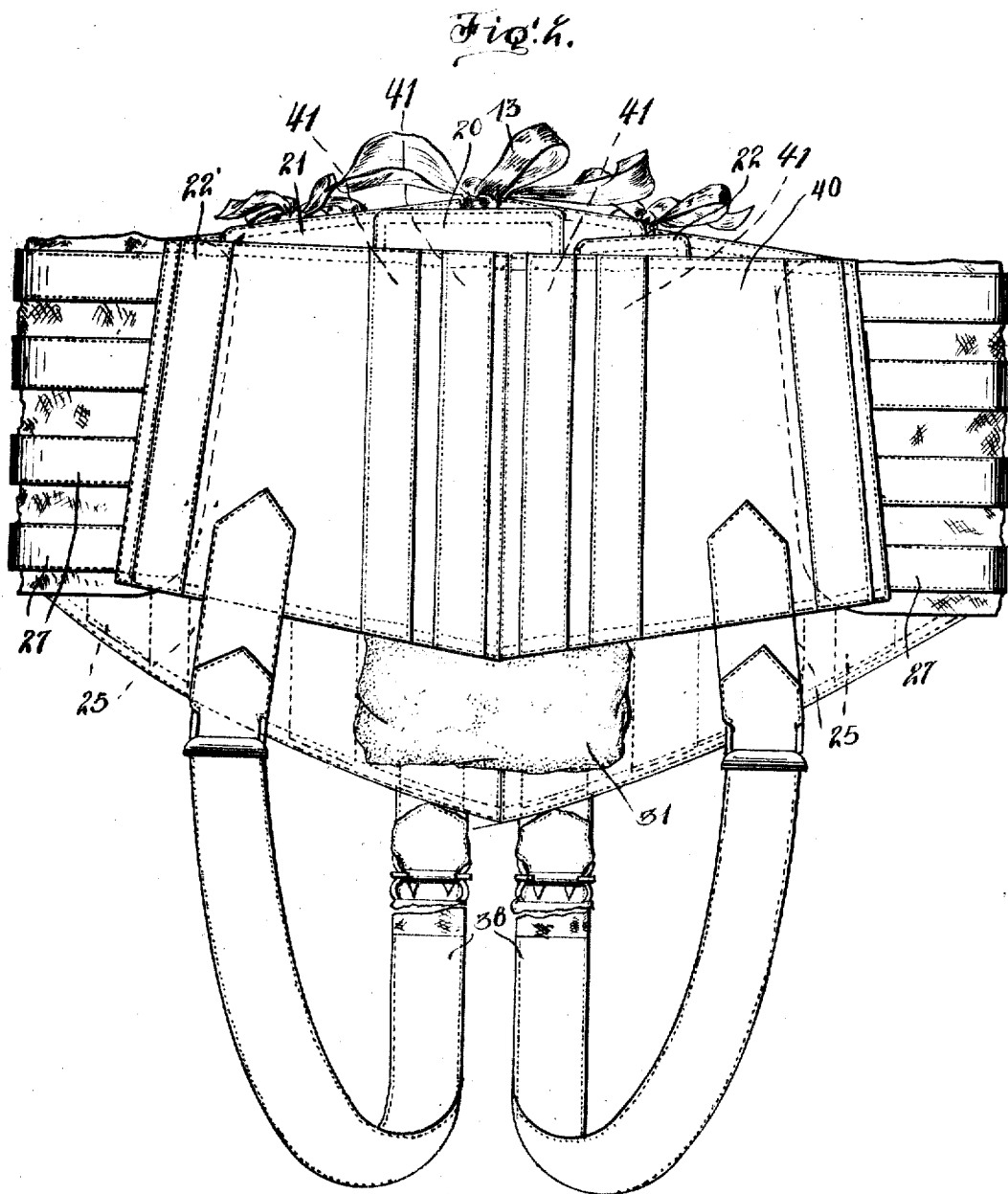
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Witnesses
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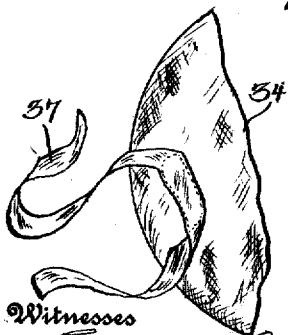
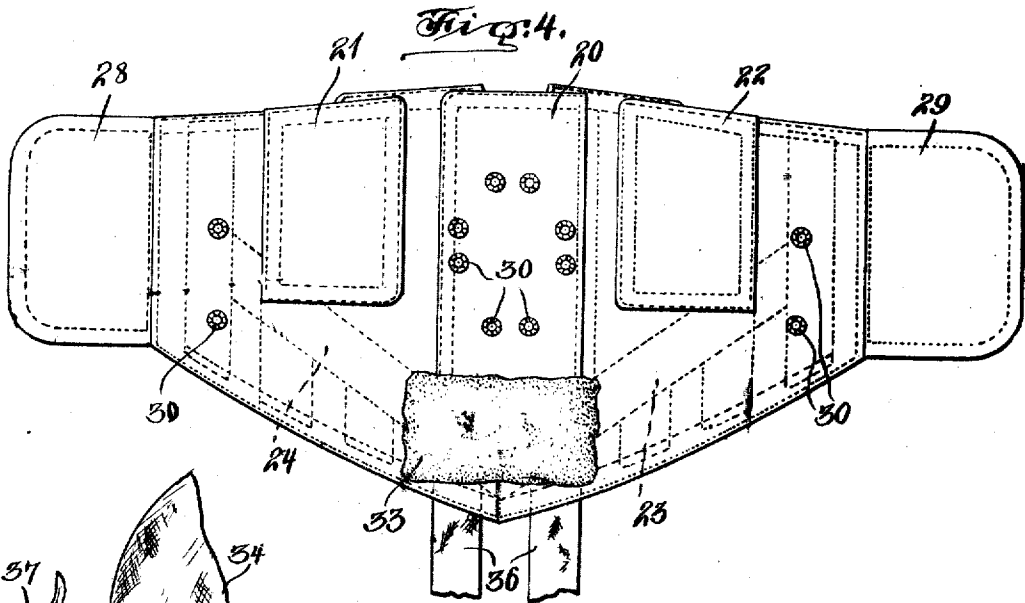
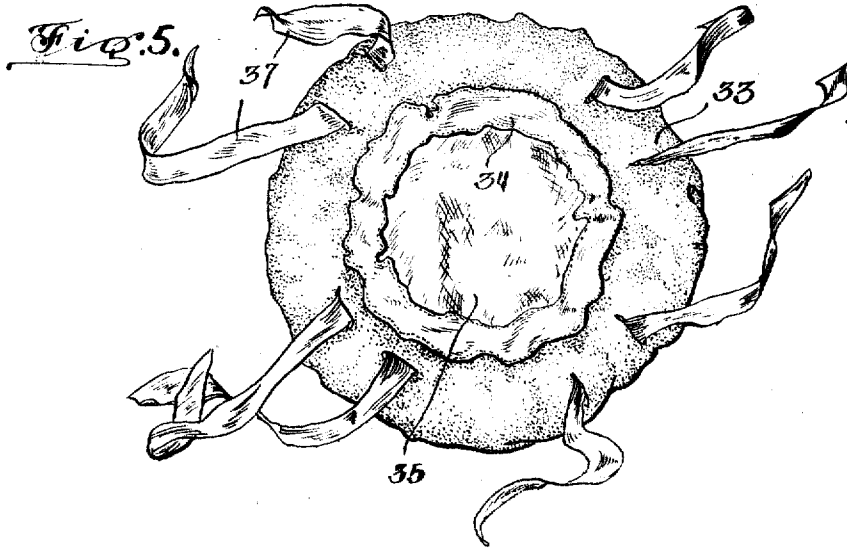
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UNITED STATES PATENT OFFICE.

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ABDOMINAL SUPPORTER.

1,003,336.

Specification of Letters Patent.

Patented Sept. 12, 1911.

Application filed October 19, 1910. Serial No. 587,915.

To all whom it may concern:

Be it known that I, GRAZIELLA M. CHAMPAGNE, a citizen of the United States, residing at Portland, in the county of Multnomah, State of Oregon, have invented certain new and useful Improvements in Abdominal Supporters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to abdominal supporters, and more particularly to devices of this character combining the properties of an ordinary abdominal supporter and a truss, and has for one of its objects to improve the construction and increase the efficiency and utility of devices of this character.

Another object of the invention is to provide a device of this character having pads adjustably connected therewith and adapted to be located upon different portions of the supporter.

A still further object of the invention is to provide a device of this character having an improved and simplified construction of the pad portion of the device.

With the above and other objects in view, the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully described and particularly pointed out in the appended claims.

In describing the invention in detail, reference will be had to the accompanying drawings, wherein like characters of reference denote corresponding parts in the several views; and in which,

Figure 1 is a front elevation of a supporter constructed in accordance with the invention; Fig. 2, a rear elevation of the same; Fig. 3, an enlarged sectional view of one of the improved pads; Fig. 4, an elevation viewed from the inside, on a reduced scale; Fig. 5, a rear view of one of the pads detached; and Fig. 6, a sectional detail view of a portion of one of the pads, illustrating the manner of applying the holding tapes thereto.

Referring to the drawings, the device is shown as comprising a body 10 having a central V shaped recess 11 formed with curved contiguous edges and with eyelets 12 and lacings 13 and also provided with smaller V shaped recesses 14 and 15, spaced from the

central recess. The smaller recesses are provided with eyelets 16 and 17 near their edges and united by lacings 18 and 19. The recesses all open upwardly, and provide for fitting the body to the person, as will be obvious.

The larger central recess 11 is provided with a protecting covering flap, indicated at 20, on the inner side of the body, while the smaller recesses 14 and 15 are likewise provided with interior covering flaps 21 and 22 respectively. The body 10 is provided near its outer ends with reinforcing strips 22' and further supported by diagonal supporting strips 23 and 24. Shorter supporting strips 25 are connected to the lower portion of the body beneath the diagonal strips, as shown. By this means, the lower portion of the body and the ends of the same are strengthened and supported.

The back portion of the body is illustrated in Fig. 2 and is shown as comprising a fabric member 40 provided at its intermediate portion with whalebone reinforcements 41, so that when the device is applied, said whalebone reinforcements will form a support for the back of the wearer. This back portion is united to the front portion by buckles and straps, indicated respectively at 26 and 27, the buckles being secured to the ends of the front portion 10 and the straps to the ends of the back portion 40. The body 10 is provided at its ends with flaps 28 and 29, as shown in Fig. 4, which are adapted to extend over the joint between the front and back portions of the support. Formed through the body 10 at suitable points are eyelets 30 designed to receive the holding straps of the pads, and these eyelets may be located at any desired portion of the body of the device so that the pad may be attached at any desired point and thus made to correspond to the condition of the patient, as hereinafter explained.

The pad portion of the improved device may be of any required size and of any required shape, the shape and size being made to correspond to the condition of the patient. Some forms of disease require a large circular pad, other forms require small circular pads, and other forms require oblong or elliptical shaped pads, and it is not desired therefore to limit this portion of the device to any particular shape or form. In Fig. 1, the location of an elongated pad is indicated in dotted lines at 31, while circular pads are

indicated by dotted lines 32, to illustrate the fact that the pads may be employed wherever required and of any required shape.

The pads are formed of an outer sheathing 33 of yieldable material, such as the fabric known as silk rubber or rubber gauze, and is drawn into pocket like form and supported with a non-yieldable binding 34, the binding being so arranged as to provide a casing having a contracted entrance so that the pad proper, represented conventionally at 35, may be inserted through the contracted opening by distending the same, and held in position by the resiliency of the casing or closure, while at the same time readily removable for renewal or cleansing. Each of the pad portions of the device is provided with tapes 37 of suitable length which are connected to the pads by stitching or otherwise and passed outwardly through small apertures in the sheathing 33, the tape being designed to pass through the eyelets 30 and tied as shown in Fig. 1, externally of the device.

The tapes are preferably bent upon themselves and stitched or otherwise secured to the pads at the bends or bight portions of the tapes, thus producing two free portions to be passed through the apertures of the sheathing 33. By this simple means, the improved device is readily adaptable to the condition of the patient and the pads adapted to be connected to the support at any point, as before stated. The pad may be constructed of any suitable material and may be hard or soft as may be preferred, but will generally be of soft material, such as cotton, wool or the like.

Suitable leg straps 36 are connected to the lower portion of and depend from the device to assist in properly securing the latter to the patient and for causing the same to

correctly conform to the contour of the body at the point where the same is applied. By the arrangement shown of the supporting strips, the lower portion of the device is strengthened and supported.

What is claimed is:—

1. In an abdominal supporter, an outer sheathing of yieldable material having a contracted inlet and with apertures near the inlet, a pad within said sheathing and tapes connected to said pad and extending through said sheathing apertures and providing means for attaching the sheathing and its pad to a supporter.

2. In an abdominal supporter, a sheathing of yieldable material having a contracted inlet, a binding of non-yieldable material surrounding said inlet, a pad within said sheathing, and means for detachably connecting said sheathing to a supporter.

3. An abdominal supporter consisting of a front having stay strips at the ends and with diagonal stay strips extending between the end stay strips and the lower central portion of the front, shorter stay strips connected to the front and extending between the diagonal strips and the bottom of the front, a back detachably connected with the ends of the front and having a plurality of vertically arranged spaced resilient strips secured thereto and disposed centrally thereof, pads bearing upon the front and means for detachably connecting said pads to that portion of the front, traversed by said end, diagonal and shorter stay strips.

In testimony whereof, I affix my signature, in presence of two witnesses.

GRAZIELLA M. CHAMPAGNE.

Witnesses:

CHAS. A. PETRAIN,

J. B. RYAN.