

M. W. FERRIS.
 ABDOMINAL SUPPORTER.
 APPLICATION FILED DEC. 8, 1909.

974,045.

Patented Oct. 25, 1910.

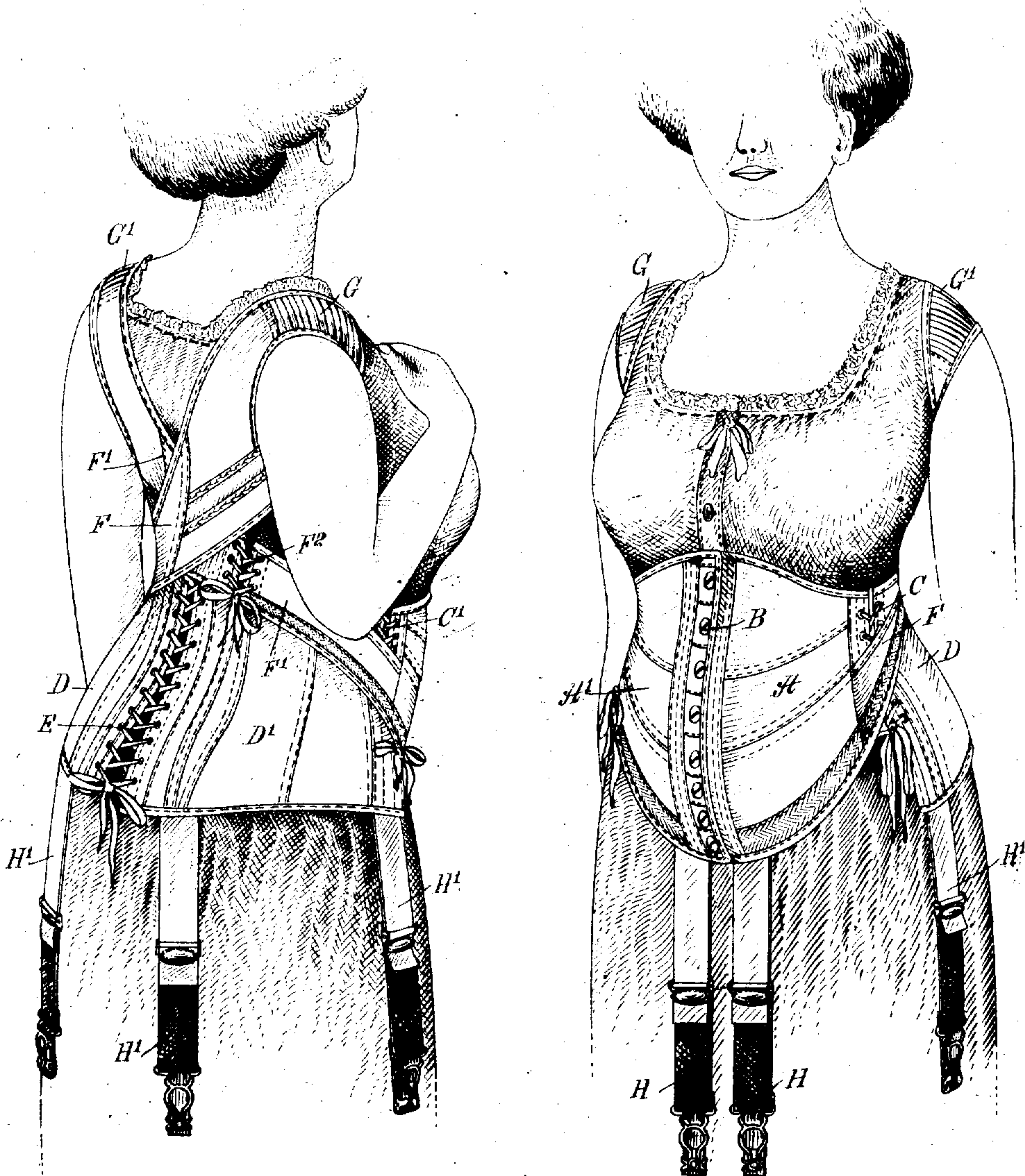


Fig. 1

Fig. 2

WITNESSES:
 E. G. Bromley,
 Rev. G. Foster,

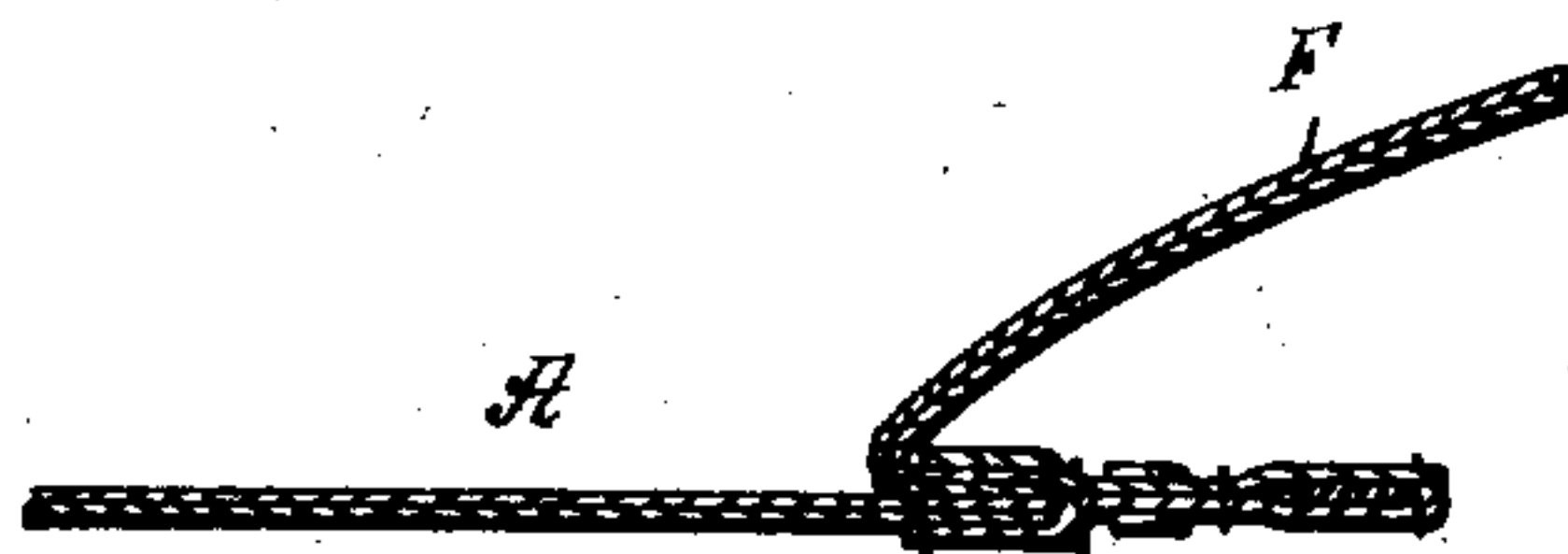


Fig. 3

INVENTOR
 Murray W. Ferris
 BY *Mum Co.*
 ATTORNEYS

UNITED STATES PATENT OFFICE.

MURRAY W. FERRIS, OF SOUTH ORANGE, NEW JERSEY.

ABDOMINAL SUPPORTER.

974,045.

Specification of Letters Patent.

Patented Oct. 25, 1910.

Application filed December 8, 1909. Serial No. 532,031.

To all whom it may concern:

Be it known that I, MURRAY W. FERRIS, a citizen of the United States, and a resident of South Orange, in the county of Essex and State of New Jersey, have invented a new and Improved Abdominal Supporter, of which the following is a full, clear, and exact description.

The invention relates to wearing apparel, and its object is to provide certain new and useful improvements in abdominal supporters, whereby the abdominal pad is held at all times in proper supporting position relative to the abdomen of the wearer, and without danger of the pad slipping upward and out of supporting position, at the same time allowing sufficient yielding for the comfort of the wearer, and permitting convenient adjustment for accurately fitting the wearer's body. For the purpose mentioned an abdominal pad is connected at the lower portion of its sides with back straps terminating in shoulder loops, the back straps extending obliquely rearward and upward to cross at the back of the wearer, and the shoulder loop of the back strap at one side of the body engaging the opposite shoulder of the wearer.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a rear perspective view of the abdominal supporter as applied; Fig. 2 is a front perspective view of the same; and Fig. 3 is an enlarged sectional plan view of part of one of the abdominal pad sections and the corresponding back strap.

The abdominal pad is preferably made in two sections A and A', connected with each other at the front by buttons B or other suitable fastening devices, and the sides of the pad sections A and A' are connected by laces C, C' with hip pieces D, D', connected with each other at the back by a lacing E. To the lower portions of the sides of the abdominal pad sections A, A' are secured the back straps F, F', extending obliquely rearward and upward over the hip pieces D, D', to cross at the back of the wearer, as plainly indicated in Fig. 1. The back straps F and F' terminate in shoulder loops G, G' engaging opposite shoulders of the wearer, that is the back strap F extending around the left side of the wearer has its

shoulder loop G engaging the right-hand shoulder of the wearer, while the other shoulder loop G' engages the left-hand shoulder of the wearer. The shoulder loops G and G' are preferably of the construction shown and described in the Letters Patent of the United States for a shoulder brace, No. 903,073, granted to me November 3, 1908, so that further detail description of this part of the abdominal supporter is not deemed necessary. The back straps F, F' are each preferably made in two parts, fastened together by a lacing F², as indicated in Fig. 1.

To the lower ends of the abdominal pad sections A, A' are secured hose supporters H, and similar hose supporters H' are attached to the lower ends of the hip pieces D, D' at or near the front and rear ends thereof.

The abdominal pad, formed of the parts A and A' as well as the hip pieces D, D' and the back straps F, F', are preferably made of non-elastic material, and the abdominal pad follows at the front a compound curve, as plainly indicated in Fig. 2, so that the lower portion of the pad extends inward, to properly fit the lower portion of the abdomen, while the upper portion is curved somewhat outwardly from the waist upward, to fit the body of the wearer at this point. Now by extending the back straps F, F' from the lower portion of the sides of the body sections A, A' and passing the same obliquely upward and rearward, a corresponding pull is exerted on the lower portion of the abdominal pad sections A and A', so that the pad properly supports the abdomen, without danger of the pad slipping upward, as no vertical pull but a diagonal pull across the back of the wearer is exerted on the pad sections.

It will be noticed, by reference to Figs. 1 and 2, that the back straps F and F' cross the waist line of the wearer at or immediately in the rear of the sides, so that the pull exerted on the abdominal pad is exerted in the right direction. By crossing the back straps F, F' on the back of the wearer and connecting the same with opposite shoulders, the device acts as a shoulder brace, thus insuring an upright, healthy carriage of the wearer, at the same time sufficient yielding is had for the comfort of the wearer. The hip pieces D and D' are preferably extended downward at the front, a distance below the lower ends of the sides

of the abdominal pad sections A and A', as plainly indicated in Fig. 2, so that the hip pieces D and D' extend properly over the hips of the wearer. It will also be noticed
5 that by attaching the hose supporters H and H', in the manner described and shown, a straight downward pull is exerted on the abdominal supporter, to reduce any tendency of the supporter to slip upward. By having
10 the laces C, C', E and F², the several parts can be readily adjusted to suit the configuration of the wearer's body.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. An abdominal supporter, comprising an abdominal pad, hip pieces united at the back and connected with the sides of the said pad, and crossing back straps terminating in shoulder loops and attached to
20 the lower portions of the sides of the abdominal pad, the said back straps crossing at the back of the wearer and their shoulder loops engaging opposite shoulders, the said
25 back straps extending obliquely, upwardly and rearwardly from the lower portions of the sides of the said abdominal pad and passing over the said hip pieces, the said straps exerting a rearward and upward pull
30 on the lower portion of the abdominal pad from the opposite shoulders of the wearer.

2. An abdominal supporter, comprising an abdominal pad made in sections fastened together at the front, hip pieces laced to
35 the sides of the said pad sections and fastened together at the back, and crossing back straps secured to the lower side portions of the sections of the pad and extending rearwardly and upwardly over the said
40 hip pieces, the said back straps terminating in shoulder loops for engagement with the wearer's shoulders.

3. An abdominal supporter, comprising an abdominal pad made in sections fastened
45 together at the front, hip pieces laced to the sides of the said pad sections and laced together at the back, the said hip pieces being extended downward beyond the sides of the pad sections, and crossing back straps

secured to the lower side portions of the pad sections, adjacent to the lacing connection with the hip pieces, and extending rearwardly and upwardly over the said lacing connection and said hip pieces, the said
55 back straps terminating in shoulder loops for engagement with the wearer's shoulders.

4. An abdominal supporter, comprising an abdominal pad made in sections fastened together at the front, hip pieces laced to the sides of the said pad and secured together at
60 the back, and crossing back straps secured to the lower side portions of the pad and extending rearwardly and upwardly over the said hip pieces, the said back straps crossing each other at the back of the wearer
65 and terminating in shoulder loops for engagement with the wearer's shoulders, and the said back straps being made in sections laced together.

5. An abdominal supporter consisting of
70 front pad sections having fastening devices for securing them together at the front, the lower portion of the pad sections extending inward to properly fit the lower portion of the abdomen, hip pieces laced to the side
75 edges of the pad sections and adapted to be secured together at the back of the wearer, the said hip pieces extending downward at the front below the lower ends of the sides of the pad sections, and back straps secured
80 to the lower portion of the front pad sections at the sides thereof, and extending obliquely rearward and upward, the said straps crossing the lacing connections between the pad sections and the hip pieces
85 and passing across the said hip pieces, the said back straps crossing the waist line of the wearer at the sides and crossing each other at the back of the wearer and terminating in shoulder loops.
90

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MURRAY W. FERRIS.

Witnesses:

THEO. G. HOSTER,
PHILIP D. ROLLHAUS.