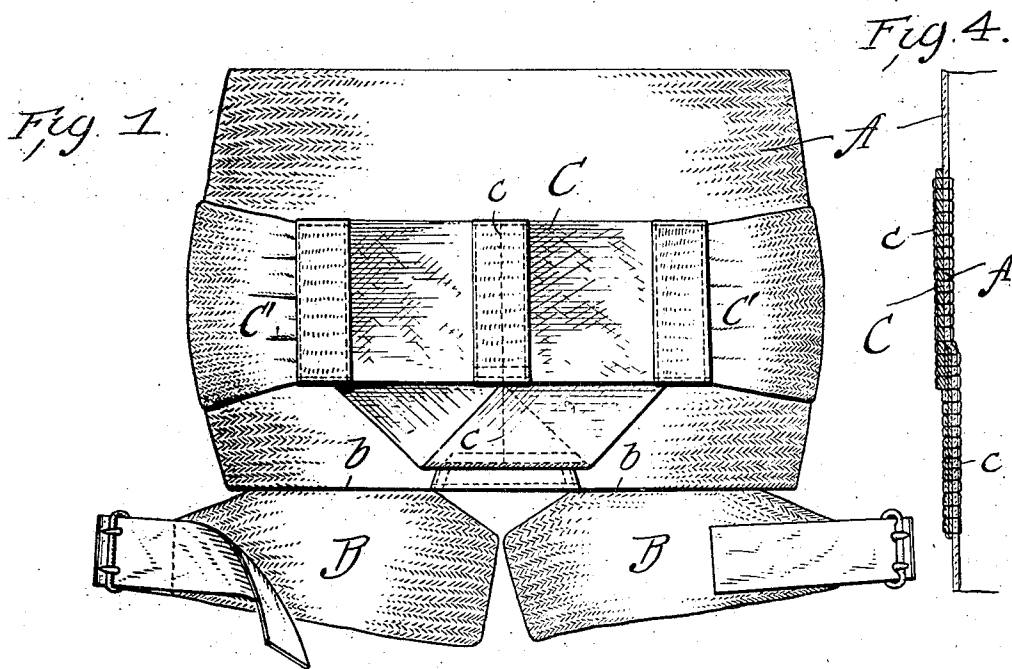
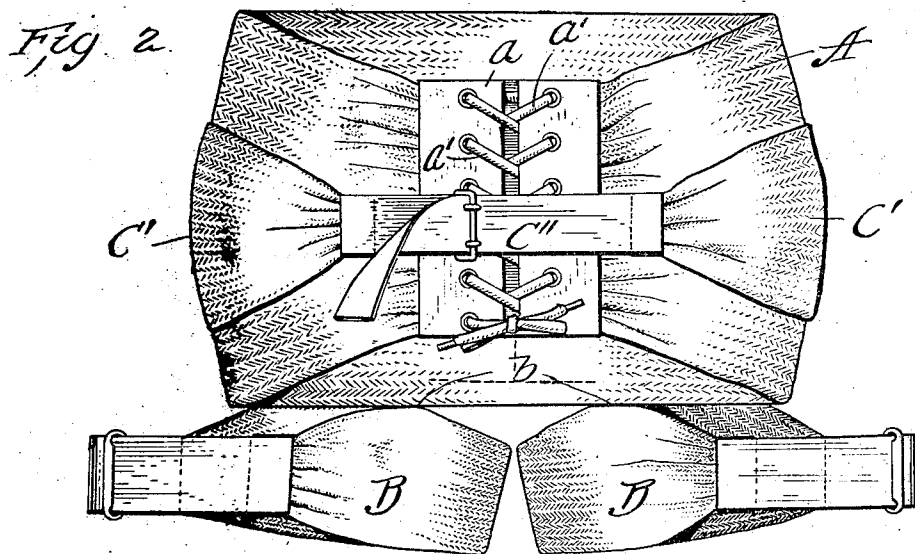
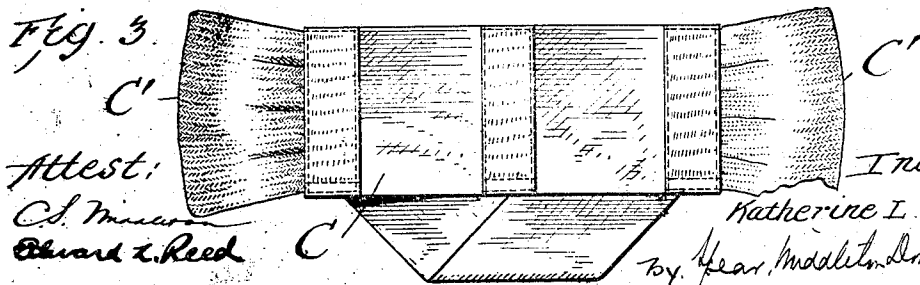


No. 825,561.

PATENTED JULY 10, 1906.

K. L. STORM.
ABDOMINAL SUPPORTER.
APPLICATION FILED OCT. 23, 1905.



Attest:

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UNITED STATES PATENT OFFICE.

KATHERINE L. STORM, OF PHILADELPHIA, PENNSYLVANIA.

ABDOMINAL SUPPORTER.

No. 825,561.

Specification of Letters Patent.

Patented July 10, 1906.

Application filed October 23, 1905. Serial No. 284,025.

To all whom it may concern:

Be it known that I, KATHERINE L. STORM, a citizen of the United States, residing at No. 1612 Diamond street, Philadelphia, Pennsylvania, have invented certain new and useful Improvements in Abdominal Supporters, of which the following is a specification.

My invention relates to abdominal supporters and binders; and its object is to provide an improved abdominal supporter and binder for use in pendulous abdomen, tumor, pregnancy, ruptures, varicose veins, &c., and especially to give efficient compression to abdominal walls after operations upon the kidney, liver, appendix, uterus, or Fallopian tubes, &c.—in short, for any purpose for which an abdominal supporter or binder may be used.

It is to be understood that I do not desire to limit myself to the precise construction and arrangement herein set forth, as it is obvious that various modifications may be made therein without departing from the essential features of my invention.

With these objects in view my invention consists in the construction hereinafter described, and more particularly pointed out in the claims.

Referring to the accompanying drawings, Figure 1 is a front view of my invention, showing the arrangement of the supporter and binder. Fig. 2 is a rear view of the same. Fig. 3 is a detail view of the reinforcing-band. Fig. 4 is a sectional view of the same.

The first characteristic of my invention hereinafter to be described is the use of a band A, of two-ply layer of either stockinet or linen mesh, for the body or major portion of the binder, the ends of which are firmly embraced by a two-ply layer of strong cotton cloth or other suitable material *a* for the insertion of eyelets and lacers *a'* or other suitable means for mutually engaging each other and designed to detachably close the binder firmly around the body of the wearer. This band, made of two-ply layer of either linen mesh or a knit fabric commonly called "stockinet," has a tensile strength of many hundred pounds. It is also elastic in every direction, but to a much less extent lengthwise of stitch and also of binder, and being formed of cotton, silk, wool, or linen threads is soft, light, flexible, and agreeable to the skin and capable of perfect adaptation to configuration of the human form, while at

the same time forming a glove-fitting binder of great firmness and powers of compression.

A second characteristic of my invention is the novel method of retaining the binder in position by strap-like devices B; fastened around the thighs of the wearer, said devices being attached along a portion of their upper border to a portion of the lower border of the body of the binder, as at *b*, in a location covering the groin of the wearer.

A third characteristic is the peculiar construction of the adjustable reinforcing-band C. It consists of a fitted portion of non-elastic webbing C for the front of abdomen, giving a marked degree of firmness and stiffness where most needed, as over a wound or rupture, &c., in the upper, middle, or lower zone of the abdomen. Attached to the opposite extremities of this non-elastic portion are similar bands C', comprised of two-ply linen mesh or stockinet, forming the soft and elastic portions designed to embrace the sides or hips of the wearer, the free extremities being provided with attachments C'', such as buckle and strap, to mutually engage each other behind the body of wearer. The non-elastic portion C of this reinforcing-band may be constructed of any non-elastic or stiffening material and is shaped to fit snugly over the part of the body to be supported. It is preferably secured to the body portion A in such a manner as to hold it in place, but to allow it such freedom of motion as is necessary to conform to the configuration of the body, and this may be accomplished by stitching at one or more points or along a single line, as is shown in the drawings at *c*. By this combination of non-elastic portion in front and soft elastic portions at the sides great power of compression and support with entire comfort and ease to wearer is secured in any attitude of rest or motion.

It may be noted that my improved supporter and binder has all the advantages secured by devices of this class heretofore woven with rubber or with rubber in some part of their construction and that it has further advantages in that it may be made of material which is lighter in weight and thinner in texture, and therefore does not interfere with other garments, such as corsets. It is lower in cost than rubber elastic. It is more agreeable to the skin and withal more hygienic than devices containing steel, leather, or rubber in their construction, because made of a porous material which per-

mits evaporation from the surface covered by it, and is withal freely and conveniently washable. It is equally adapted to the use of men, women, and children in all degrees of activity or invalidism.

Having thus described my invention, what I claim is—

1. In an abdominal supporter, the combination with a body portion of elastic material in the form of a band, an auxiliary supporter superimposed on the said elastic body-band and comprising a fitted portion of non-elastic material, and hip portion of elastic material for holding the non-elastic fitted portion in place with a yielding pressure, substantially as described.

2. An abdominal supporter comprising a body portion of knitted material, thigh-straps of knitted material secured at their upper edges to said body portion, a non-elastic fitted portion secured at a point intermediate the ends thereof to said body portion and straps of knitted material secured to the opposite end of said non-elastic portion and adjustable means for uniting the free ends of said straps, substantially as described.

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

KATHERINE L. STORM.

Witnesses:

ALICE M. HACKLEY,
AMELIA WEICKSEL.