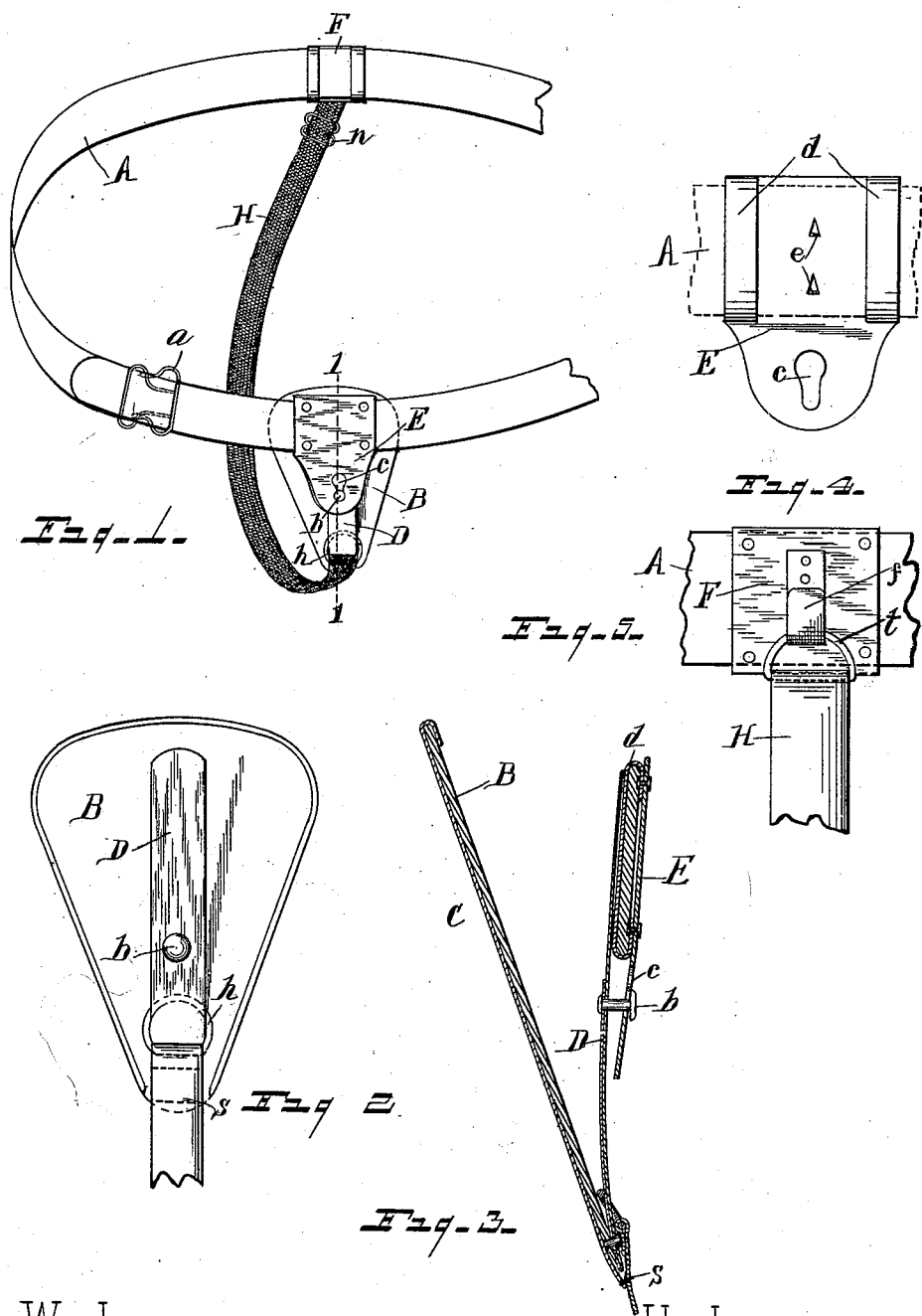


(No Model.)

G. S. ROSS.
TRUSS.

No. 466,517.

Patented Jan. 5, 1892.



WITNESSES
B. A. Wheeler
E. S. Wheeler

INVENTOR
G. S. Ross,
By *R. B. Wheeler*
att'y

UNITED STATES PATENT OFFICE.

GEORGE S. ROSS, OF ROCHESTER, MICHIGAN.

TRUSS.

SPECIFICATION forming part of Letters Patent No. 466,517, dated January 5, 1892.

Application filed March 30, 1891. Serial No. 386,943. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. ROSS, a citizen of the United States, residing at Rochester, in the county of Oakland and State of Michigan, have invented certain new and useful Improvements in Rupture-Trusses; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in trusses especially designed for use in cases of rupture; and it consists in a certain construction and arrangement of parts, as fully hereinafter set forth, the essential features of the device being pointed out particularly in the claims.

The object of the invention is to provide a simple, cheap, and effective means for reducing and palliating hernia, and, in its incipient stage, effecting a permanent cure. This object is attained by the device illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my improved truss, a portion of the body-band being broken away. Fig. 2 is an enlarged view of the truss-pad removed from the body-band. Fig. 3 is an enlarged section on dotted line 1 1 of Fig. 1. Fig. 4 is an elevation of the inner face of the plate secured to the body-band and to which the pad is adapted to be attached or locked. Fig. 5 is an elevation of the outer face of the plate adapted to be secured to the body-band at the rear and to which one end of the elastic band that passes between the limbs is secured.

Referring to the letters of reference, A indicates the body-band. Said band is made of textile fabric, is slightly elastic, and is provided with a suitable buckle *a* to enable it to be properly adjusted to the body, around which it is secured at or slightly below the waist.

B indicates the rupture-pad, which is triangular in form. Said pad is made of light wood or other suitable material and is provided on its inner or pressing face with a covering of

zinc C, which presents a smooth surface to the body, does not corrode, and obviates galling. Other coverings for the pad may be used, however, if desired. Secured to the outer face of the pad B at its lower point is a flat spring D, provided with a projecting stud *b*, the free or outer end of said spring standing outward or away from the face of the pad, as shown in Fig. 3.

E indicates a locking-plate provided on its back face with the loops *d*, (see Fig. 4,) adapted to receive the body-band A, which is passed therethrough and by means of which said plate is secured thereon. Said plate E is also provided with the spurs *e*, that engage the band A, and prevent the plate from slipping when adjusted to its proper position on said band. In the depending portion of the plate E is a key-hole-shaped aperture *c*, in which the stud *b* is adapted to engage, by means of which the pad B is secured thereto, as shown in Fig. 1, the parts being locked.

F indicates a plate adapted to be secured to the band A in like manner at the back or opposite the plate E, the outer face of said plate having a hook *f*, as shown in Fig. 5, that is adapted to engage the ring *t* in the rear end of the elastic band H, the forward end of said band H being secured to the rupture-pad B by means of the ring *h* in the end of said band, which is slipped over the spring D and encircles said spring at the base, and said band H is additionally secured to the pad B by stitching through said band and the lower point of said pad, as shown at *s* in Figs. 2 and 3. The elastic band H passes between the limbs, and is designed to assist in retaining the pad B in its proper place and prevent it from slipping up.

To place this improved truss in position, the band A is passed around the body and secured. The pad B, with the elastic band H attached thereto, is then secured to the plate E by passing the stud *b* through the aperture *c* and sliding it down into the neck of said aperture, the parts being so arranged that the pad B will bear over the orifice of protrusion, said pad being kept to its seat by the pressure of the spring D. The elastic band H is then passed between the limbs and its rear end attached to the hook on the plate F, said

band being so adjusted by means of the buckle *n* to prevent the pad from working up and to give it a bearing over its entire surface.

- 5 In trusses as ordinarily constructed the rupture-pad has a convexed bearing-face and is held in place by a strong curved spring passing around the body. With trusses of this class as the body changes position the
10 pad will work into the orifice in the abdominal wall, causing annoyance and pain, and tends to increase the size of said orifice rather than diminish it. In the use of my improved truss these objections are overcome, as the
15 pad B is held against the body by the pressure of the spring D, which is pliant and does not bear with undue force as the body changes position, and said pad having a flat bearing-surface will not work into and enlarge the
20 orifice of protrusion, therefore in cases of incipient hernia effecting a permanent cure, and by means of the triangular shape of said pad the lower point of which extends well into the groin a rupture into the scrotum is
25 prevented in cases of inguinal hernia, which is often caused by the undue pressure of the ordinary truss in such cases. By the employment of the elastic band H the pad B is

always held securely in place, enabling a person to work with ease in any position. 30

Having thus fully set forth my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a truss, the belt combined with the locking - plate and hook - plate adjustably 35 mounted thereon, the flat pad having the spring attached thereto, the stud on said spring, said stud adapted to engage with the locking-plate, the elastic band having one end attached to the pad, its opposite end having 40 a detachable connection with the hook-plate, substantially as specified.

2. The rupture-pad comprising the triangular base having the flat face, said face having the zinc covering, combined with the 45 spring having one end secured to the pad and the stud secured to the spring, the belt having means of engagement with the stud of said spring, the elastic band secured to said pad and to said belt, substantially as set forth. 50

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

GEORGE S. ROSS.

Witnesses:

D. B. KRESSLER,
F. H. BURR.