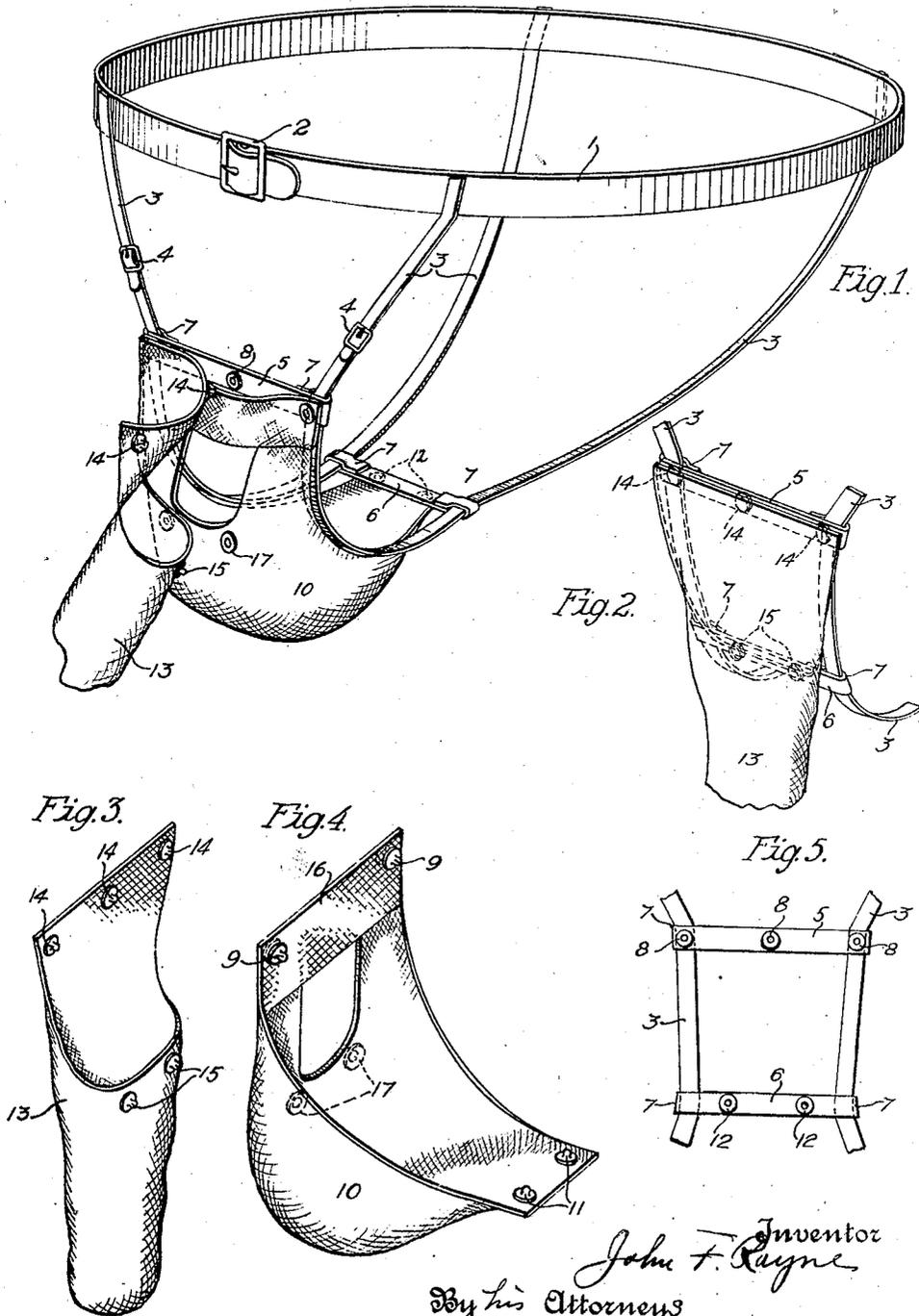


Dec. 11, 1923.

1,477,187

J. F. RAYNE
SURGICAL APPLIANCE
Filed Jan. 14, 1922



Inventor
John F. Rayne
By his Attorneys
Newell & Spencer

UNITED STATES PATENT OFFICE.

JOHN F. RAYNE, OF NEW YORK, N. Y.

SURGICAL APPLIANCE.

Application filed January 14, 1922. Serial No. 529,177.

To all whom it may concern:

Be it known that I, JOHN F. RAYNE, a subject of the King of England, residing at New York city, N. Y., have invented certain
 5 new and useful Improvements in Surgical Appliances, of which the following is a clear, full, and exact description.

My invention relates to a surgical appliance for more conveniently supporting a
 10 suspensory, a pouch, or both.

Among the objects of the invention is to provide a support of this kind which is comfortable to the wearer, one in which the position of the suspensory or pouch may be
 15 readily adjusted, and a device which is extremely simple in construction and economical to manufacture. These and other objects and advantages will become apparent from the following detailed description and
 20 claims when considered in connection with the accompanying drawings in which—

Fig. 1 is a perspective view;

Fig. 2 is a fragmentary view showing the pouch in place;

25 Fig. 3 is a detail of the pouch;

Fig. 4 a detail of the suspensory; and

Fig. 5 is a view showing the cross members connecting the straps.

Referring to the drawings, 1 represents
 30 the belt portion of my appliance, having a buckle 2, by which it may be fastened about the waist of the wearer.

Fastened to the belt are two straps 3, one end of each being attached near the front
 35 of the belt portion, the other end being fastened to the belt at the back. For convenience in manufacture and assembling and also to afford greater range in adjustment the front reaches of the straps are in two
 40 parts connected each by a buckle 4. The straps may be stitched to the belt or secured in any other suitable way. Preferably the belt is elastic as are also the straps, which are somewhat narrower than the belt.

45 In devices of this kind with which I am familiar, discomfort is attendant upon their use because there is usually a rigid or inflexible portion connected to the belt, and no means are provided whereby they may be
 50 properly adjusted to suit different anatomies. They also fail of their purpose for the same reasons.

My invention completely overcomes these objections and to this end I provide means
 55 whereby both the suspensory and the pouch

may be adjustably supported on the belt and preferably I accomplish this by two members 5 and 6 connected across the straps as shown. Each of these has its ends folded over as at 7, forming a loop which embraces
 60 the strap upon which the members 5 and 6 may be slid.

The upper member 5 carries a plurality of fastening devices 8 with which a plurality of fasteners 9 carried by the suspensory 10,
 65 are adapted to engage. The suspensory also carries fastening devices 11 adapted to engage similar devices 12, carried by the lower or rear member 6. By reason of the adjustability of the suspensory along the straps 3,
 70 it may be exactly positioned for any wearer.

Preferably the members 5 and 6 are also made of elastic material and the loops 7 make a close fit so that the adjustment is
 75 maintained. Furthermore the direction taken by the straps 3, both above the member 5 and to the rear of the member 6 is at an angle to those portions of the straps 3,
 80 between the members 5 and 6, as shown clearly in Fig. 5, which also maintains the said members in their adjusted positions.

My device also provides for using either the suspensory, or pouch, or both together.

The pouch is indicated by the reference character 13, and is provided at its upper
 85 portion with fasteners 14 which may be snapped into the fasteners 8. Fasteners 15 secured to the outer lower edge of the pouch opening are adapted to engage the fasten-
 90 ing devices 12 on the member 6, said member being slid along the straps for this purpose to the position shown in Fig. 2.

In order that both the suspensory and pouch may be used at the same time I make the fasteners 9, double fasteners, as it were,
 95 the backs of which have openings into which the projecting portions of the fasteners 14 may fit. The left fastener 14 is shown engaging the left fastener 9 in Fig. 1. When
 100 thus used the middle fastener 14 may be engaged directly with the central fastener 8, the top piece 16 of the suspensory being pliable so that it may be partially moved aside to permit this. Just beneath the suspensory
 105 aperture are two additional fasteners 17 with which the fasteners 15 engage when both suspensory and pouch are to be used together.

The suspensory may be made of ordinary knitted fabric as is customary. The pouch 110

is preferably made of a waterproof material.

It will thus be seen that I have produced an appliance which is eminently adapted to various uses, and one which may be worn both day and night with comfort. I am familiar with devices of this kind now available in commerce, and I also have some knowledge of the patented art, but as far as known to me, I am the first to provide a device of this sort having the features of simplicity, adjustability and interchangeability described and shown, and I therefore claim these features broadly.

What I claim as new is:

1. In a device of the character described, a belt, perineal straps attached thereto and members connected between the straps and each independently adjustable therealong.
2. In a device of the character described, a belt, perineal straps attached thereto, members connected between the straps and each independently adjustable therealong, and means carried by said members for supporting a suspensory.
3. In a device of the character described, a belt, perineal straps connected thereto and separate elastic members connected between the straps.
4. In a device of the character described, a belt, perineal straps connected thereto, separate elastic members connected between the straps and means carried by the said

members for supporting a suspensory or a pouch.

5. In a device of the character described, a belt, perineal straps connected thereto and elastic members connected between the straps and each independently adjustable therealong.

6. In a device of the character described, a belt, means for attaching a suspensory thereto and for also attaching a pouch thereto through the medium of the suspensory.

7. In a device of the character described, a belt, perineal straps connected thereto, two members connected across said straps, fastening devices carried by said members, a suspensory, fastening devices carried thereby adapted to cooperate with the fastening devices on said members, a pouch, fastening devices carried thereby, at least one of said members being adjustable along said straps to enable cooperation between the fastening devices of said members and the fastening devices of either said pouch or suspensory.

8. In a device of the character described, a belt, elastic straps connected thereto, elastic members connected between the straps and each independently adjustable therealong and means carried by said members for supporting a suspensory or a pouch.

Signed at New York city this 12 day of January 1922.

JOHN F. RAYNE.