

No. 712,711.

E. J. O'CONOR.  
TRUSS.

Patented Nov. 4, 1902.

(Application filed May 20, 1902.)

(No Model.)

FIG. 1

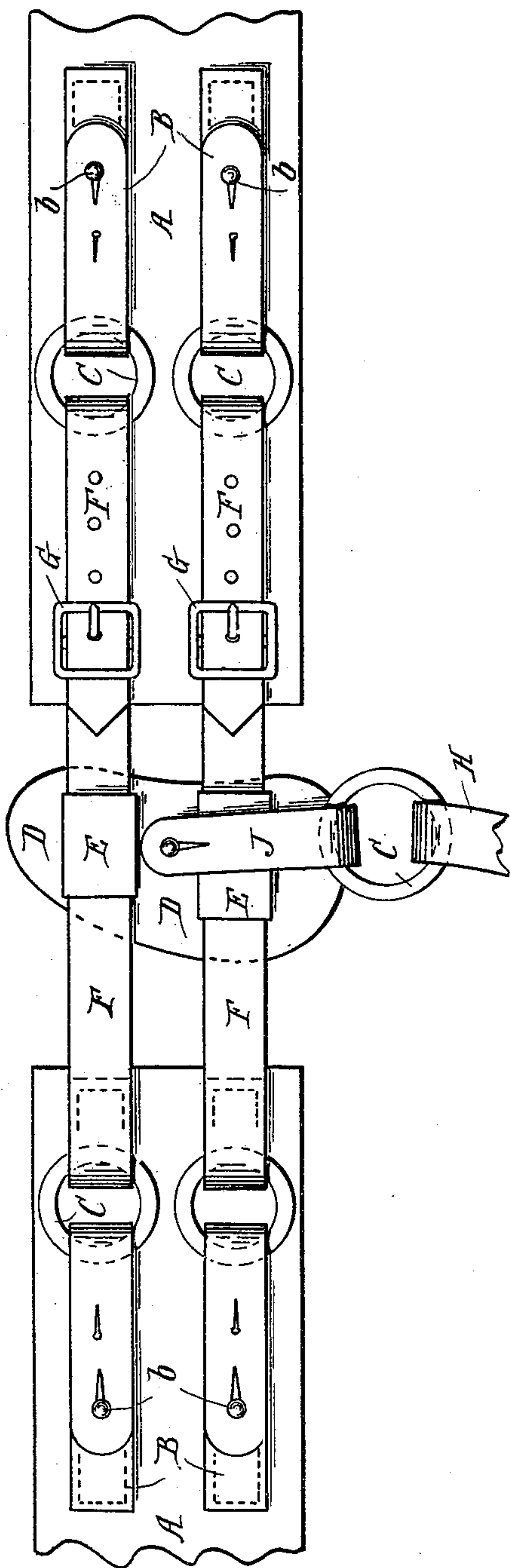
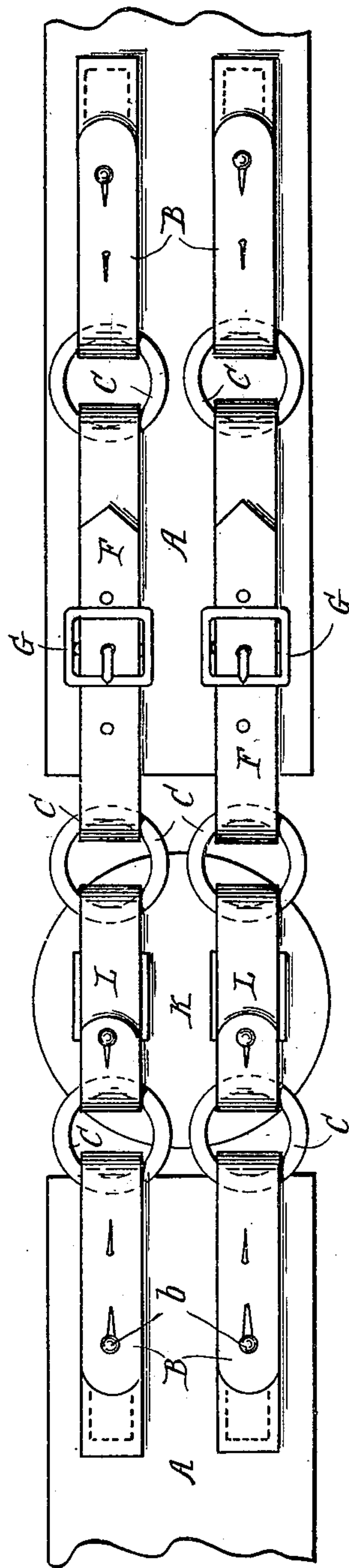


FIG. 2



*Witnesses*  
*H. E. Manning*  
*H. H. Sumner*

*Inventor*  
*Eugene J. O'Connor*  
*By Wright Bros*  
*attys*

# UNITED STATES PATENT OFFICE.

EUGENE JOSEPH O'CONOR, OF WESTPORT, NEW ZEALAND.

## TRUSS.

SPECIFICATION forming part of Letters Patent No. 712,711, dated November 4, 1902.

Application filed May 20, 1902. Serial No. 108,233. (No model.)

*To all whom it may concern:*

Be it known that I, EUGENE JOSEPH O'CONOR, a subject of the King of England, residing at Westport, New Zealand, have invented certain new and useful Improvements in or Relating to Trusses, of which the following is a specification.

This invention relates to the manner of securing trusses in position upon the human body, so that perfect freedom will be allowed to the parts of the body.

The invention has been more particularly designed for use in connection with hernia-trusses of all kinds, so that the truss shall be light and strong, easily adjusted to the body of the wearer, one in which the pad shall maintain its position in all movements of the wearer and shall exert but gentle pressure while the wearer is resting, besides being comfortable and providing for the requirements of women and children, and shall be capable of easy adjustment and cleanliness.

The invention consists of certain parts and combinations of parts, as will be hereinafter described, and pointed out in the appended claims.

In order, however, that the invention may be properly understood, reference will be made to the accompanying sheet of drawings, in which—

Figure 1 is a front elevation of the fastenings of a hernia-truss and showing the manner of securing the pad thereto. Fig. 2 is a similar view of an umbilical hernia-truss.

Referring to Fig. 1, the hernia-truss shown in this figure is constructed with a supporter or body-band piece A, that encircles the body and whose two ends do not quite meet. This band-piece is composed of any suitable material, but preferably of some non-elastic material that is capable of being washed in order that the belt may be kept cleaned. The two ends of the supporter or body-piece A have attached to them the loop-pieces B, that are adjustably looped by means of the studs and eyes b. Within the loops B are laid the rubber or other elastic rings C. I provide an adjustable connection between the pad D and the supporter or band-piece A. The pad D is of ordinary form and has attached to its back the sleeves E, through which pass the straps F. One end of each of these straps is

fastened around the rings C, attached to one end of the body-piece A, while the other ends pass around the ring C, attached to the other end of the body-piece and are secured by means of the buckles G. By thus fastening these straps they may be lengthened or shortened at will, and by tightening some and loosening others of the straps and loop-pieces the body-piece may be so adjusted as to lie flatly and comfortably against the side of the wearer. The under strap H of the truss is secured to the bottom of the pad D by means of another rubber ring C, that is passed through an adjustable loop J, secured upon the bottom thereof. It will thus be seen that the pads may be changed, so as to allow of different sizes or shapes being used, and may be adjusted either vertically or horizontally, so as to sit upon the exact position required, while the rubber rings will allow of perfectly free movement of the body without moving the pad.

In Fig. 2 the arrangement is somewhat different, although the principle is the same. The umbilical pad K has secured to its back a pair of loops L, through the ends of each of which are passed the rubber rings C. These rubber rings are then encircled upon one side of the pad K by the loop-pieces B, attached to the one end of the body-piece A, and upon the other side of the pad by the straps F, which are in their turn connected to the loop-pieces B, attached to the other end of the body-piece through the medium of the rubber rings C.

It will be observed that the rubber rings C in each instance may readily be removed from the appliance to which they are attached. When any of the rings, therefore, become old or rotten, they may be removed and fresh ones substituted with a minimum of trouble, or the rings may be substituted by others that are weaker or stronger or of different shapes and sizes, according to the different requirements of the case. The pads C and K may also be readily detached from the body-pieces, so that they may be washed or cleaned in any other manner.

In the different figures of the drawings the rings C are shown arranged in pairs; but it will readily be understood that a similar result could be obtained by having one single



ring instead of each pair, although it is preferred to have the pairs, as thereby a greater degree of comfort and a readier adjustment of the different parts is obtained.

5 Having thus described the invention, the following is what I claim as new therein:

1. In a truss, the combination of a non-elastic body-band encircling the body, a pad located between the ends of said band, a plurality of elastic connections extending from 10 each side of the pad to a corresponding end of the body-band and means for adjusting each of said connections independently.

2. In a truss, the combination of a broad, 15 non-elastic body-band, a pad located between the ends of said body-band, two strap connections extending between the ends of said body-band, with a suitable elastic medium inserted in each strap connection, means 20 whereby the pad is mounted to slide upon said strap connections, and means whereby each strap is adjustable independently of the other.

3. In a truss, the combination of a broad, 25 non-elastic body-band, a pad located between the ends of said body-band, two strap connections extending between the ends of said body-band, with a suitable elastic medium inserted in each strap connection, and a plurality of stud-and-eye connections between 30 each strap connection and the body-band, whereby each strap connection is adjustable independently of the other.

4. In a truss, the combination of a broad, 35 non-elastic body-band, a pad located between the ends of said body-band, two strap connections extending between the pad and each end of the body-band, and an elastic ring interposed in each one of the four strap connections, said rings being connected with the 40 respective ends of the body-band by means

of loops having free ends secured by stud-and-eye connections.

5. In a truss, the combination of a broad, non-elastic body-band, a pad located between 45 the ends of said body-band, two elastic rings adjacent to and on each side of the pad, loops detachably connecting the elastic rings with the respective ends of the body-band, straps connecting the elastic rings with the pad, an 50 under strap carrying an elastic ring, and a loop detachably securing the elastic ring of the under strap to the pad.

6. The combination of the body-band encircling the body, two loops carried by each 55 end of said body-band, an elastic ring held by each of said loops, two straps connecting the elastic rings of one end of the body-band to the corresponding elastic rings of the other end of said band, a pad provided with sleeves 60 through which said straps are fitted, and an under strap connected to the pad and to the body-band.

7. The combination with the body-band; of two adjustable loops carried by each end 65 thereof; an elastic ring secured within each of the loops; two adjustable straps, each of which connects an elastic ring on one end of the body-band with an elastic ring on the other end of the body-band; a pad provided 70 with sleeves in which the adjustable straps are fitted; an under strap; an elastic ring carried by the under strap; and an adjustable loop connecting the elastic ring on the under strap with the pad. 75

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

EUGENE JOSEPH O'CONOR.

Witnesses:

W. ALEXANDER,  
JAS. T. HUNTER.