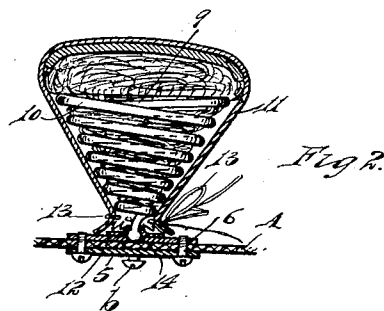
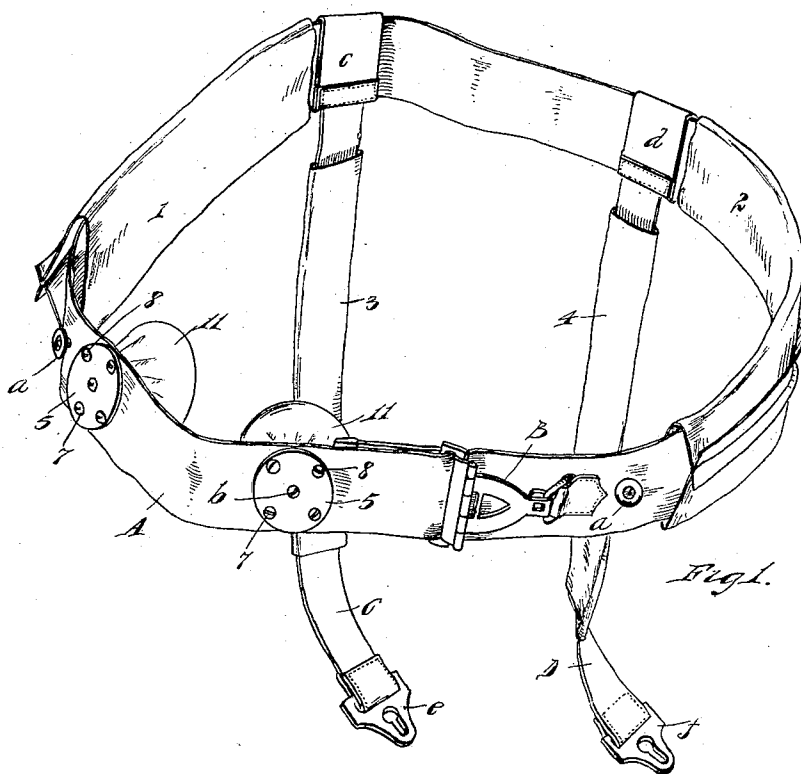


No. 822,811.

PATENTED JUNE 5, 1906.

G. C. ABRAHAM.
TRUSS.

APPLICATION FILED JULY 16, 1904.



WITNESSES

T. F. Macey
May E. Kott.

INVENTOR

Gustav C. Abraham
By *Parker & Burton*
Attorneys.

UNITED STATES PATENT OFFICE.

GUSTAV C. ABRAHAM, OF FLINT, MICHIGAN.

TRUSS.

No. 822,811.

Specification of Letters Patent.

Patented June 5, 1906.

Application filed July 16, 1904. Serial No. 216,789.

To all whom it may concern:

Be it known that I, GUSTAV C. ABRAHAM, a citizen of the United States, residing at Flint, county of Genesee, State of Michigan, have
5 invented a certain new and useful Improvement in Trusses; and I 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 pertains to make and
10 use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to surgical trusses. It has for its object an improved truss-holding belt and truss-pads connected therewith.

15 In the drawings, Figure 1 is a perspective of a belt with two truss-pads located at the left of the buckle. Fig. 2 is a sectional elevation of the truss-pad.

20 The location of the truss-pads along the belt is determined, as must always be the case, by the requirements of the individual user of a particular belt.

A indicates the belt, made, preferably, of elastic webbing fastened together by a buckle
25 B of any approved construction.

C and D indicate holding-straps which are secured to the belt by sliding connections *c* and *d* and which may be placed at any desired
30 position along the main body of the belt. The front end of each strap C or D is provided with a catch *e*, (or *f*), adapted to engage over a button *a* on the belt or over a button *b* on the plate which holds the pad.
35 The belt is protected by tubular coverings 1 and 2, of washable textile material, made in the form of tubes and adapted to be removed at will.

40 The holding-straps C and D are provided with similar tubular protective coverings 3 and 4. The truss-pad is secured to the belt by plates 5 and 6, one of which is placed on the inside and the other of which is placed on the outside, and the two are held together by
45 screws 7 and 8. The pad itself is constructed of coiled wire bent into the form of a conical spiral. The extreme end 9 of the wire is se-

cured by soldering or some other similarly secure and smooth way to the body 10 of the wire, and the open mouth of the coil presents 50 a substantially smooth surface. The coil is filled with air or other suitable stuffing material. A covering of kid or wash-leather 11 is drawn over the coil and the stuffing gathered at the neck of the coil and secured with a 55 string 13. The wire at the small end of the coil terminates with a small ball 14, which is secured in a socket between the plate 6 and an auxiliary holding-plate 12, which is provided with an opening and engages around 60 the neck of the wire behind the ball. The entire pad has a slight rocking motion on the ball-and-socket joint and is elastic and resilient to a high degree. In use the center of the pad yields and forms an elastic cup that 65 engages over the hernia.

The form of or the material of which the belt or pad is made is immaterial, as this pad can be used in connection with the webbing belt shown or with any flat or round truss- 70 spring which the user may select, and it is itself constructed of any suitable material.

The pads are placed along the belt to correspond with the requirements of the individual user. The straps C and D slip along 75 the belt and are buttoned either to the outer face of the plate which holds the pad or to an independent button *a*, as may be required.

What I claim is—

80 In a truss for surgical use, the combination of a belt, a conical spiral of wire secured to said belt by a ball-and-socket joint at its smaller end and having its largest spire farthest from the belt, and a pad resting toward its periphery upon said outer spire, and a 85 hood passing over said pad and spiral and secured to the smaller end of said spiral.

In testimony whereof I sign this specification in the presence of two witnesses.

GUSTAV C. ABRAHAM.

Witnesses:

C. H. JOHNSON,
FRANK DULLAM.