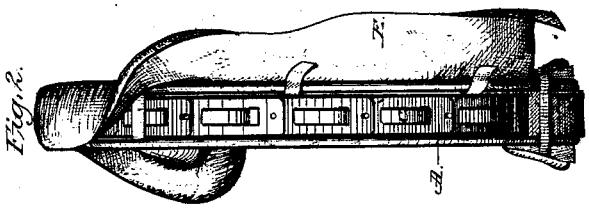
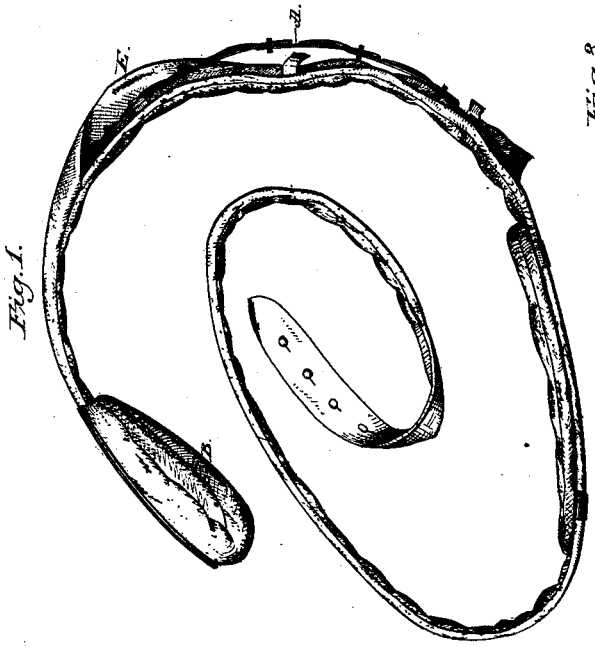
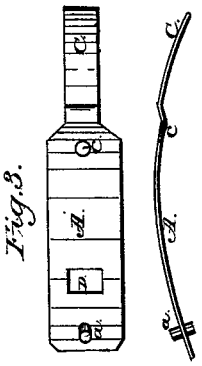
E. EDEL.
Truss.

No. 198,586. Patented Dec. 25, 1877.







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UNITED STATES PATENT OFFICE.

EMIL EDEL, OF HANOVER, PRUSSIA, GERMANY.

IMPROVEMENT IN TRUSSES.

Specification forming part of Letters Patent No. **198,586**, dated December 25, 1877; application filed July 14, 1876.

To all whom it may concern:

Be it known that I, EMIL EDEL, of the city of Hanover, in the Kingdom of Prussia, German Empire, have invented a new and Improved Method of Constructing and Manufacturing Trusses, of which the following is a specification:

This invention relates to certain improvements in trusses for hernia and other complaints of a similar nature; and it is specially designed to overcome the objectionable and injurious qualities of the rigid-spring body-band.

The invention consists in forming the truss spring or band of a series of plates, which are connected with each other by means of studs or rivets and interlocking tongues, thus producing a spring-band of jointed or flexible sections, which will yield to the ever-changing and unequal motions of the body of the wearer, and not exert the undue pressure of the ordinary spring-band.

In the accompanying drawings, Figure 1 is a top view of a truss possessing my improved spring. Fig. 2 is a side view of the same; and Fig. 3 is a detail view of one of the plates forming the spring.

It is a well-known fact, demonstrated by experience, that the ordinary truss-spring or body-band is, in a number of cases, absolutely injurious to the wearer of the truss, for its pressure is so great and unremitting that it will injure the person and produce an enlargement of the rupture.

Another disadvantage of the ordinary spring is, that it is very apt to break, even if it be of excellent workmanship.

My invention removes the objections of the ordinary spring, for by making the same of a number of plates or sections, A, jointed together, I produce a spring which will yield readily to all muscular movements of the body, and yet exert sufficient pressure to hold the pad B securely in place.

The plates composing the spring are provided with studs or rivets *a*, which enter a hole, *c*, in the end of a contiguous plate. This mode of uniting the plates will cause the same to have a free movement in a horizontal direction. However, that no displacement out of this horizontal position may occur, and the fitting to the body may be preserved throughout in an equal degree, the plates composing the spring are connected by means of tongue-shaped projections C, which are formed on one end of the plate, so as to enter a slit or opening, D, in the end of an adjacent plate, and lie flat upon the same.

The truss-spring is covered with a suitable fabric, E, so as to remove the spring from direct contact with the body of the wearer.

A truss-spring made according to my invention can be used in the construction of trusses for inguinal hernia, hernia femoralis, and in navel-trusses, and whether the truss is single or double it will be equally effective.

The pressure of the spring is also sufficient to enable the customary thigh-strap to be dispensed with.

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

The combination of a series of plates, A, having studs *a*, holes *c*, projecting tongues C, and slits D, with a pad, B, and suitable flexible attaching-strap, as and for the purpose set forth.

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

EMIL EDEL.

Witnesses:

LORIN SONMAN,

EDWARD C. MAC LEAN.