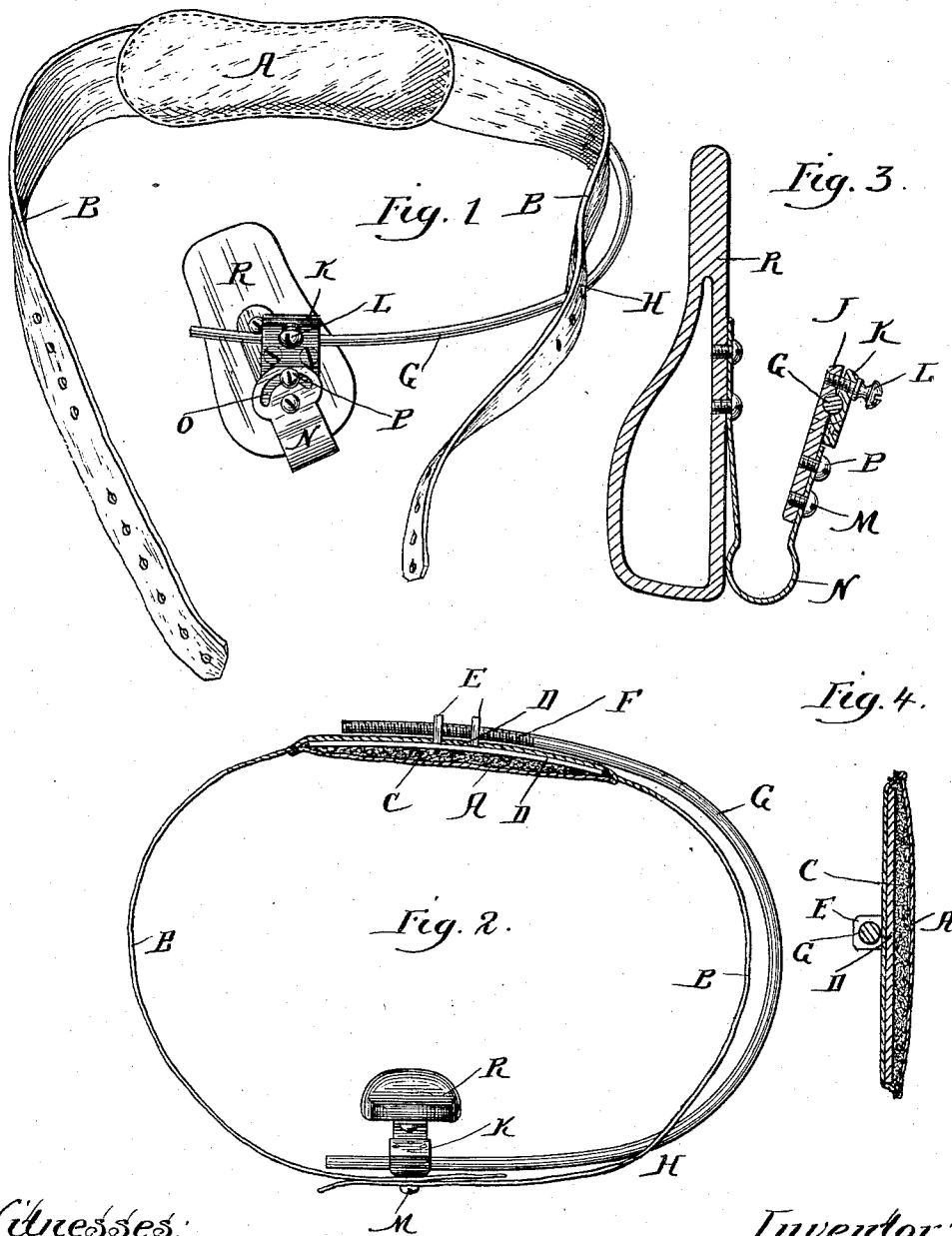


(No Model.)

T. Y. KAYNE.
TRUSS.

No. 474,088.

Patented May 3, 1892.



Witnesses:

Charles R. Chapman.
Harriet M. May.

Inventor:

Thomas Y. Kayne
by Francis W. Parker,
Attorney.

UNITED STATES PATENT OFFICE.

THOMAS Y. KAYNE, OF CHICAGO, ILLINOIS, ASSIGNOR TO HATTIE M. HENLEY,
OF SAME PLACE.

TRUSS.

SPECIFICATION forming part of Letters Patent No. 474,088, dated May 3, 1892.

Application filed December 8, 1890. Serial No. 373,861. (No model.)

To all whom it may concern:

Be it known that I, THOMAS Y. KAYNE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Trusses, of which the following is a full, clear, and exact specification.

My invention relates to trusses, and has for its object to provide a convenient and simple truss, as hereinafter set out. It is illustrated in the accompanying drawings, wherein—

Figure 1 is a perspective interior view of the truss. Fig. 2 is a plan view of the same with a section through the back plate. Fig. 3 is a detail of the pad. Fig. 4 is a vertical section through the back of the truss.

Like parts are indicated by the same letters in all the figures.

A is the back plate, provided, preferably, with an elastic body and suitably secured upon or connected with the belt B B. The back plate is provided with a somewhat stiff base C, upon which is secured the support D, from which rises the two screw-threaded projections E E, which receive the screw-threaded end F of the rod G. This rod passes through the belt at the point H, and also passes between the clamp-plates J K, where it is adjustably held by means of the set-screw L. The plate J has a projecting end, whereby it is pivoted upon the screw M to the spring-pad support N. This support has an arc-shaped slot O, through which passes the screw P into the plate J, whereby the plates K and J are adjustably secured to the spring-pad support M.

R is the pad, secured upon the end of its spring-support.

It is evident that many changes could be made in the form and structure of these devices without departing materially from the spirit of my invention.

The use and operation of my invention are as follows: The position of the back plate upon the rod G may be changed by rotating the same, since the screw-threaded projections E E will cause the back plate to travel longitudinally upon the screw-threaded portion F of the rod. Moreover, in use it is plain that the back plate will always be capable of

a rocking motion upon the rod G, so that in bending the body the back plate will always lie smoothly against the person. The pad is evidently capable of various adjustments—as, for example, it is capable of angular adjustment with reference to the rod G by means of the slot O and set-screw P. It is also evidently capable of adjustments about or along the rod G by means of the set-screw L, and the plates J and K. Again, it can be reversed by being removed and turned into the opposite direction to that shown in Fig. 2, whereupon by turning the truss over it will be found that it has been converted from a right to a left hand truss. This change is easily made on account of the connection between the back plate and the rod G. In tightening the truss the belts are drawn together and each secured upon the screw M, and in this manner it is evidently obvious from inspection of Fig. 2 that the truss may be tightly secured upon the person without forcing the rod G against the hip. In other words, the truss is so organized that the back plate and pad are held in proper relation to each other and supported by the spring-rod G, while they are all secured to or tightened upon the person by means of the belt.

Some of the features of the device, as described, might be omitted in the manufacture of any given truss.

I claim—

1. In a truss, the combination of a rod to which the back plate and the pad are secured and which passes somewhat more than half-way round the person and is normally free therefrom at its curved part, and a securing-belt adapted to be tightened about the person, and thus hold the pad and plate in position while the rod is free from the body, said back plate secured to the strap and said rod passing through the strap at its forward end, so that the body is protected from the curve of the rod by the tightening of the strap which lies under it, the rod and belt being disposed and connected together so as to be substantially in the same plane.

2. In a truss, the combination of a rod with a back plate and a front pad, said pad consisting of a clamping-plate adjustably secured

by a set-screw to the rod, a spring-support
pivoted to such clamping-plate and adjustably
held thereon by means of an arc-shaped slot
and set-screw so as to be capable of adjust-
5 ment as to angle, and a pad properly secured to
the spring-support, whereby such pad proper
may be reversed or changed as to angle or

position on the rod or turned about the rod
thereupon, as may be required.

THOMAS Y. KAYNE.

Witnesses:

CELESTE P. CHAPMAN,
HARRIETT M. DAY.