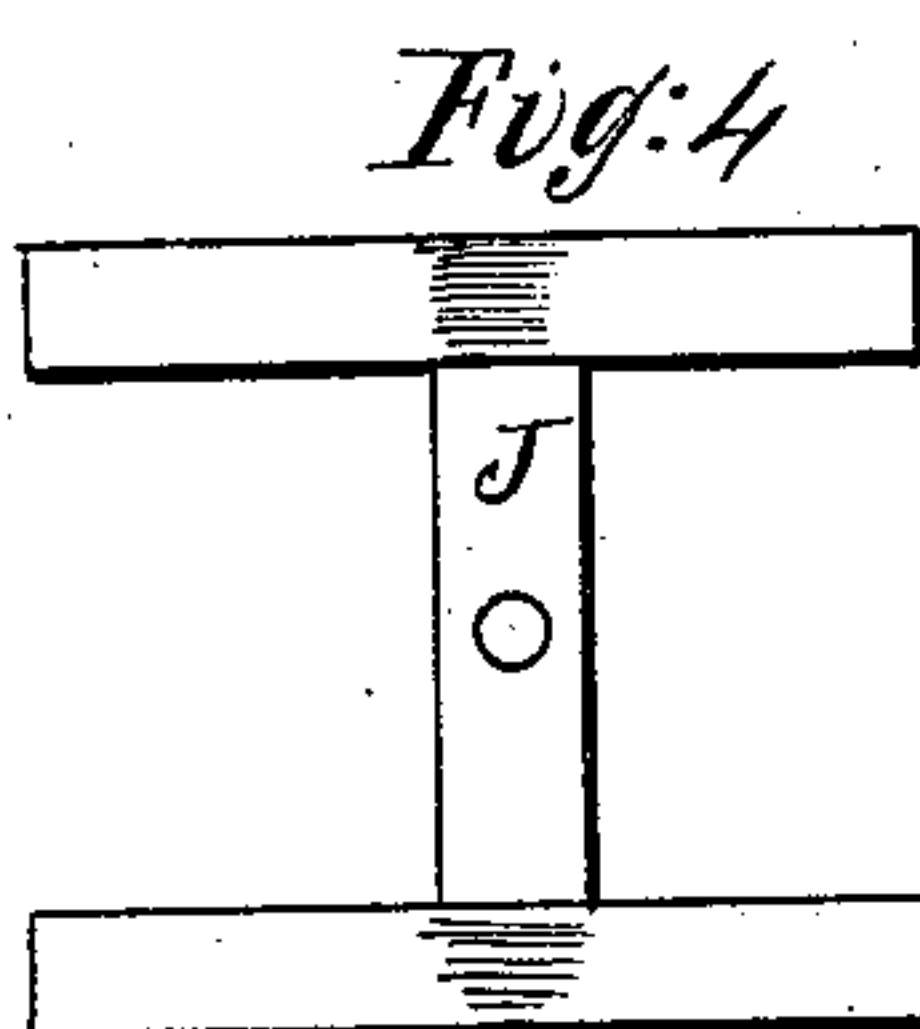
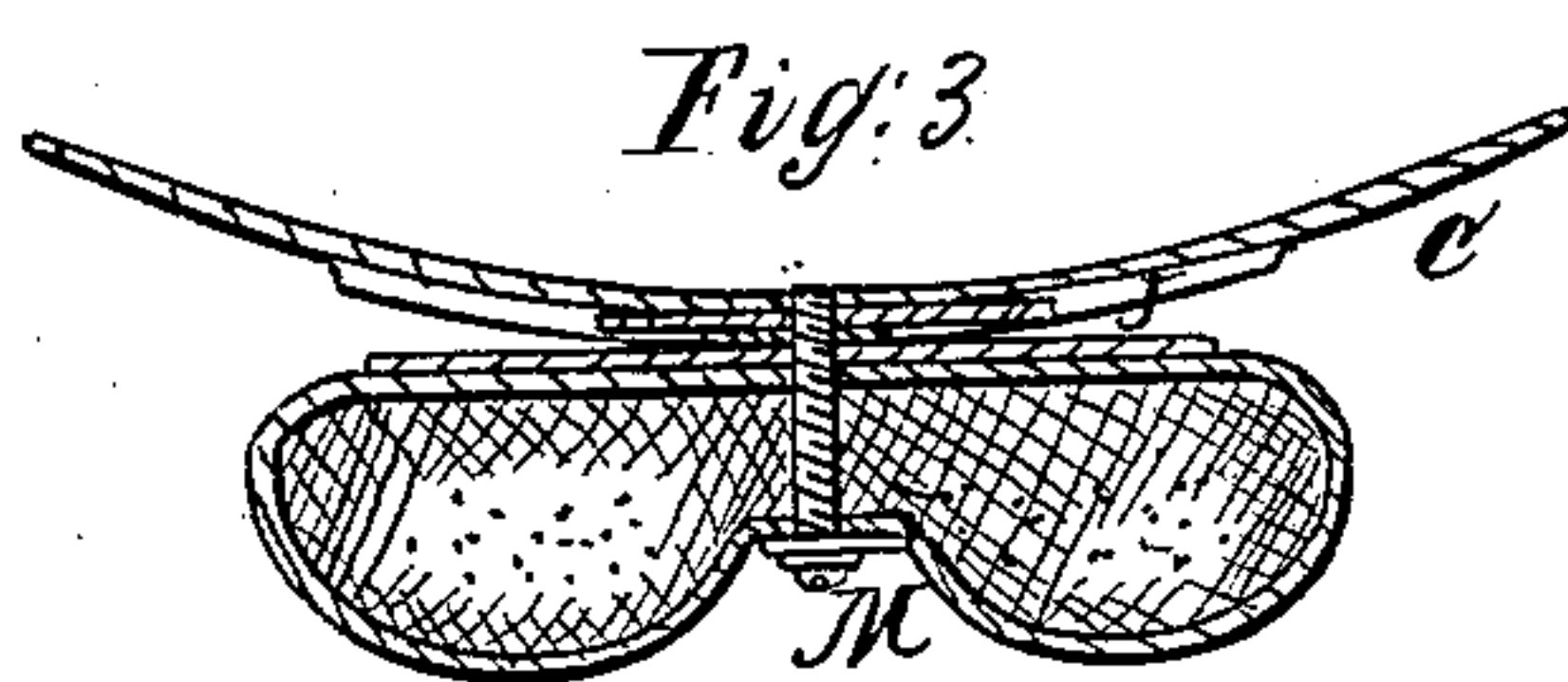
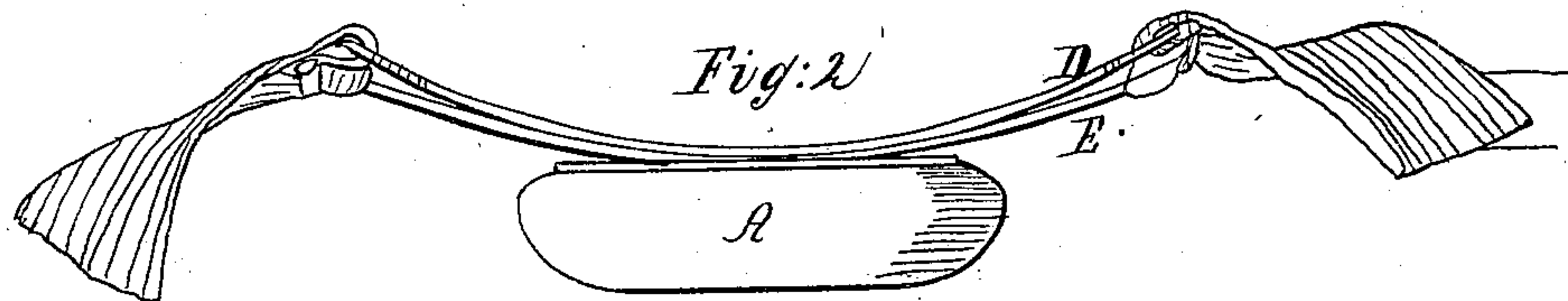
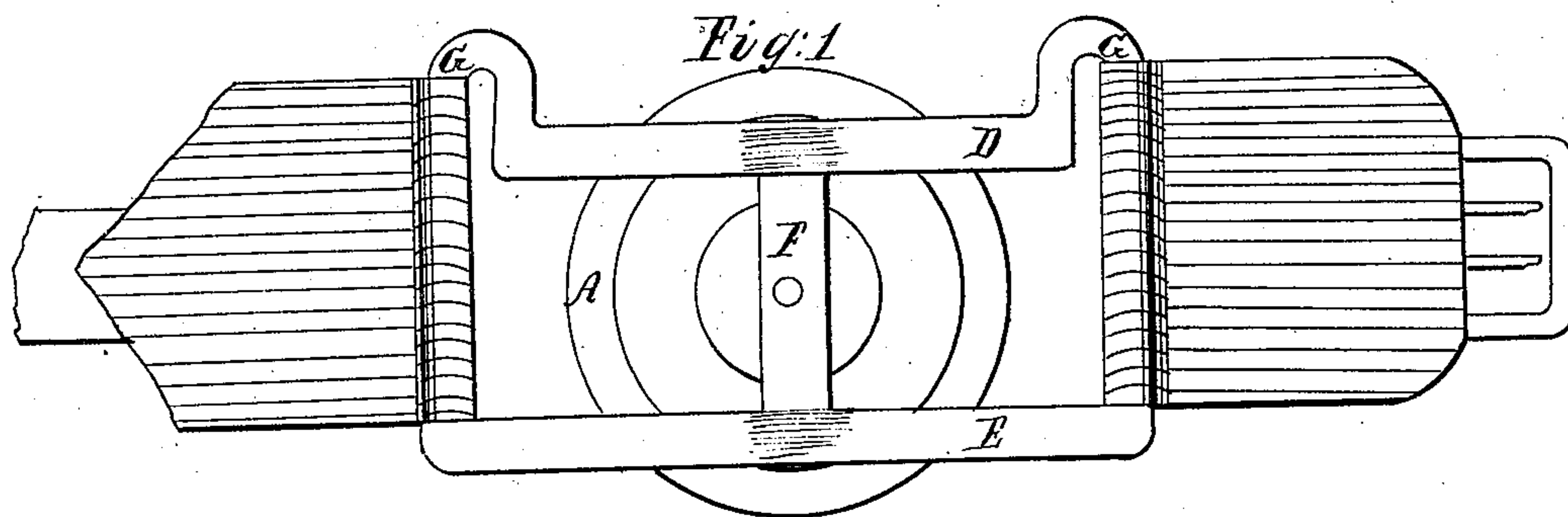


E. B. Harding,

Truss,

N^o 104,952.

Patented July 5, 1870.



Witnesses

*W. H. Emerson
C. B. Pease.*

Inventor

*E. B. Harding
by his attys
Gardiner & Hyde*

United States Patent Office.

E. B. HARDING, OF NORTHAMPTON, MASSACHUSETTS.

Letters Patent No. 104,952, dated July 5, 1870.

IMPROVEMENT IN TRUSSES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, E. B. HARDING, of Northampton, Hampshire county, Commonwealth of Massachusetts, have invented a new and useful Improved Truss; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

In the drawings—

Figure 1 is a plan view;

Figure 2, a side view;

Figure 3, a sectional view of my improvements; and

Figure 4 is a view of an auxiliary spring.

The object of this invention is to obtain, by means of attaching an improved spring, a truss, which shall be easy of wear, which can have its pressure on the afflicted part regulated to different stages of convalescence, and which shall have an upward pressure against the part of the body to which it is applied.

The arrangement of this pad, in connection with the belt for attaching it to the body, and keeping it in the proper place, is by means of a spring, C, the peculiar construction of which produces the important results of giving a more general fit, and bringing no hard substance in contact with the body, except so far as the pad may be considered in that light.

This spring C, as it will be seen, consists of a frame, cut out of sheet steel, or other spring metal, suitable for the purpose of forming two spring bars D and E, with central cross-piece F, by which it is attached to the pad and two end bars, G and G, by which the belt is attached, as shown in the figure.

The lower bar D is curved outward from the pad at a greater curve than the upper bar E. This is for the purpose of bringing an upward pressure upon the afflicted part, the greater stiffness of the lower part

of the spring, combined with the extension of the end or belt-bars G G, below the lower spring bar D, and the increased curve of the bar D, all tending to throw the lower part of the pad further inward, and consequently upward, as the upper part acts as a partial pivot.

In order to render the spring more or less stiff, as the patient may require at different times, I use an adjustable auxiliary spring, J, which is cut out of sheet metal, in the shape of an H, and inserted between the spring C and pad, the piece H operating in conjunction with both upper and lower bars.

The spring may be T-shaped, if necessary, to stiffen only one bar.

By means of the screw M, connecting the pad and spring piece C, this auxiliary can be applied in a few minutes without trouble, or as equally easily taken off, so that by means of an auxiliary T or H spring, one or both of the spring bars E and D may be stiffened at will, while, as less pressure becomes necessary to hold the separated muscles together, the auxiliary spring may be removed.

The belt consists of a simple strap, of whatever material may be most convenient, and it has no spring or other hard substance in it to annoy the wearer by chafing.

Now, having described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The spring C, for a truss, when made with greater curvature, and prolongations of the lower bar, for producing an upward pressure, all arranged and applied in the manner and for the purpose set forth.

E. B. HARDING.

Witnesses:

EDWARD H. HYDE,
R. F. HYDE.