

W. L. TUCKER.  
Hernial-Truss.

No. 204,775.

Patented June 11, 1878.

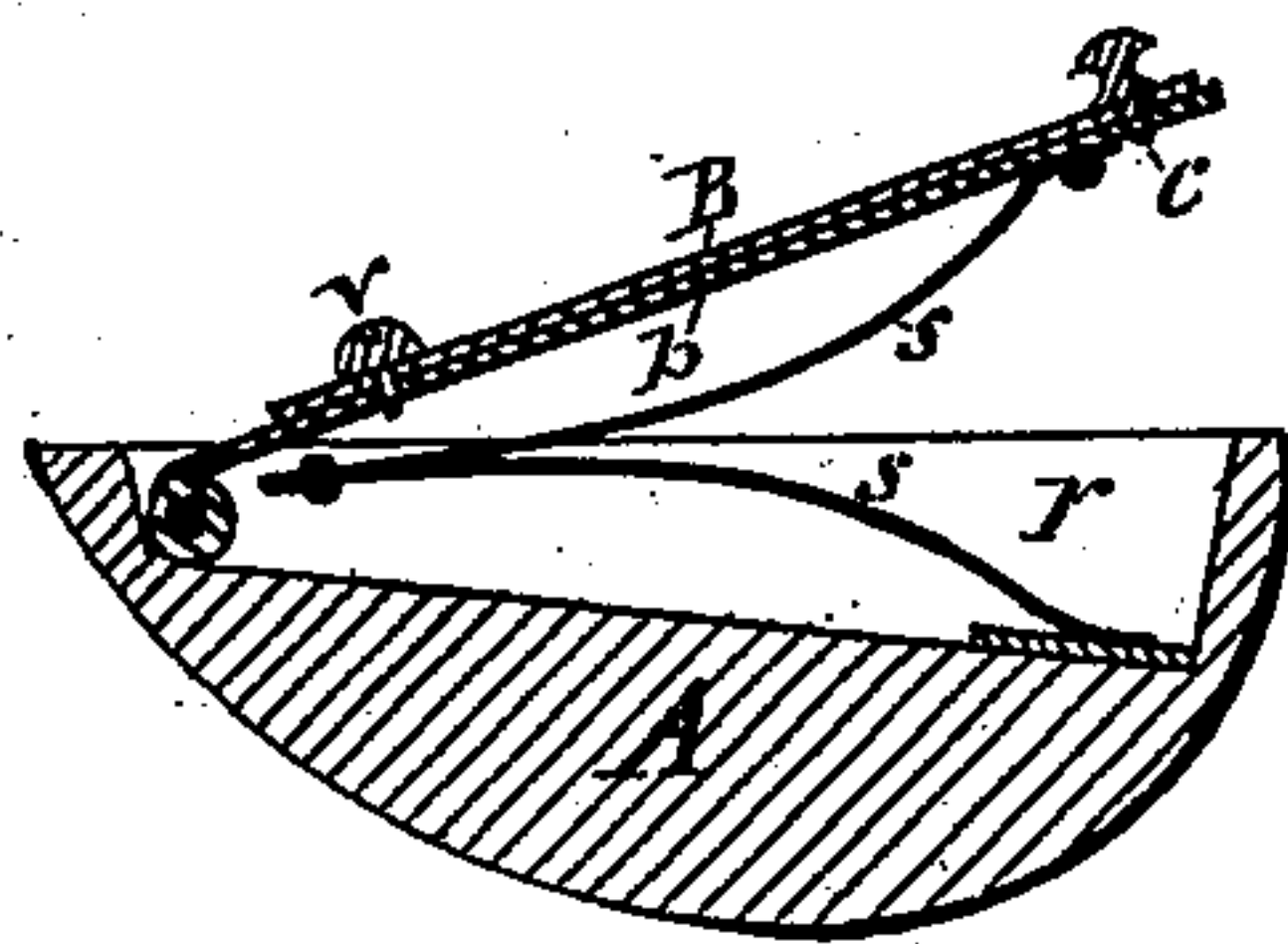


Fig. 1.

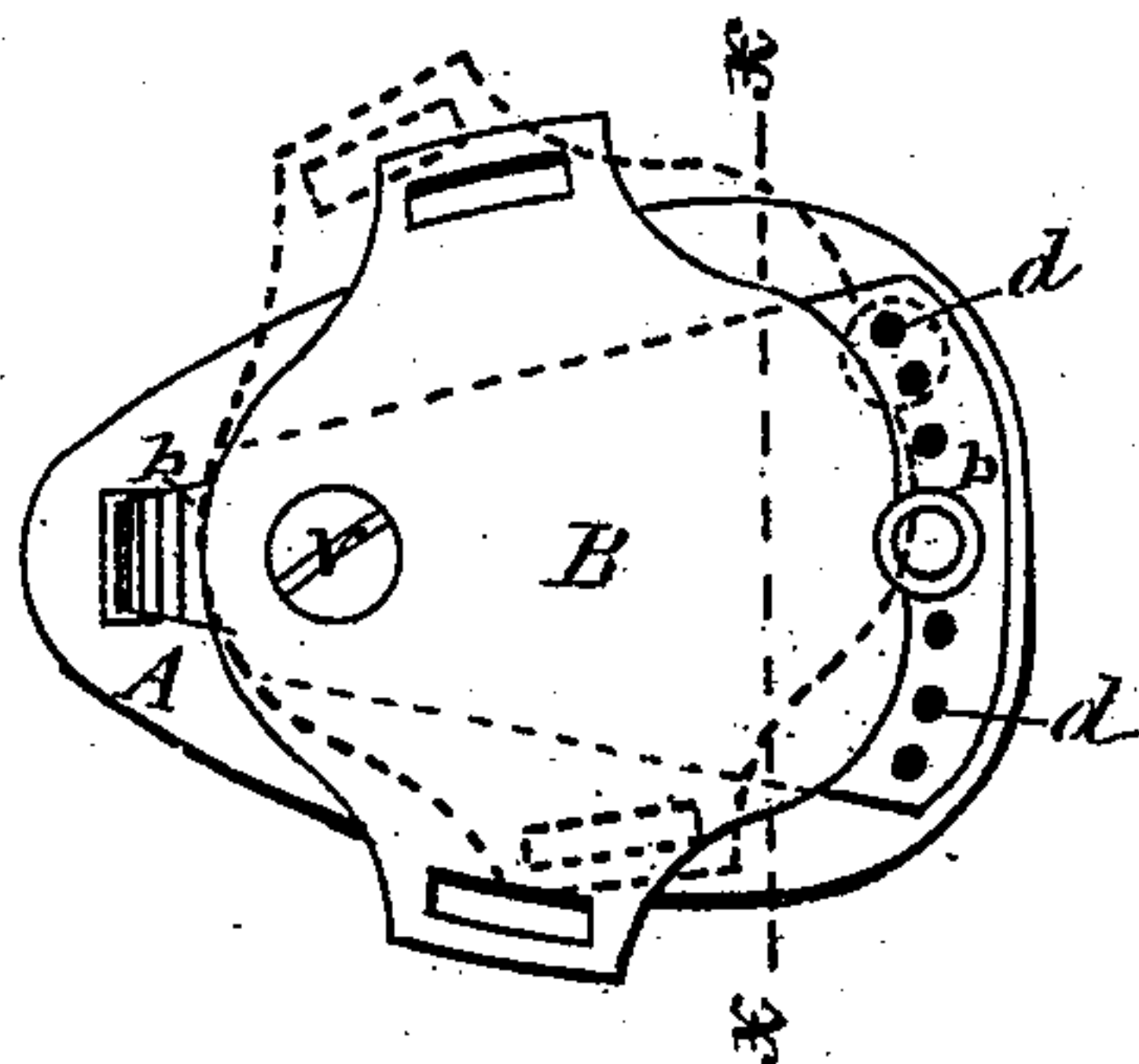


Fig. 2.



Fig. 3.

WITNESSES:  
J. C. Laufs  
H. Hill

INVENTOR:  
William L. Tucker  
by E. Laass his Atty.

# UNITED STATES PATENT OFFICE.

WILLIAM L. TUCKER, OF SYRACUSE, NEW YORK.

## IMPROVEMENT IN HERNIAL TRUSSES.

Specification forming part of Letters Patent No. **204,775**, dated June 11, 1878; application filed April 22, 1878.

*To all whom it may concern:*

Be it known that I, WILLIAM L. TUCKER, of the city of Syracuse, in the county of Onondaga, in the State of New York, have invented a new and useful Improvement in Hernial Trusses, of which the following, taken in connection with the accompanying drawing, is a full, clear, and exact description.

This invention relates to that class of hernial trusses in which the pad is connected to the main plate with radial adjustability, and which have a spring interposed between the respective parts for the purpose of imparting to the pad a yielding or elastic pressure.

The invention consists, essentially, in a novel construction and combination of the back plate and main plate, whereby the pad is readily adjusted and better secured in its position, all constructed and arranged substantially in the manner hereinafter fully described.

In the accompanying drawing, Figure 1 is a longitudinal section of my invention; Fig. 2, a plan view of same; and Fig. 3, a transverse section of the back plate and main plate on line *x x* in Fig. 2.

Similar letters of reference indicate corresponding parts.

A represents the pad, of ordinary external form, and provided in its rear with a recess, *r*, extending partly the length thereof. Near the top of the pad is pivoted the back plate *b*, having a broad main part, with its upper extremity narrowed to enter the recess *r*, and bent around a pintle which passes transversely through the pad. To the lower extremity of the back plate *b* is attached a V-shaped spring, *s*, constructed of two bars, secured to each other at one end, and attached to the plate aforesaid by one of its free ends.

A spring thus constructed and applied to a pad affords superior elasticity, and is better adapted for retaining the hernia within the walls of the abdomen, and, furthermore, obviates unnecessary and inconvenient enlargement of the pad, as is the case with springs hitherto employed.

B is the main plate, to which the waist and perennial bands are attached. This plate is

pivoted near its top edge to the upper portion of the back plate *b* by means of a set-screw, *v*, and is provided at its bottom edge, and directly under the perennial-strap fastening, with a spur, *c*, adapted to engage one of a series of holes, *d*, in the plate *b*, and thus admits of adjusting the pad in its position relative to the angle with the main plate, which adjustment is accomplished by loosening the set-screw *v*, to allow the main plate to be raised sufficiently to disengage the spur *c* from the back plate *b*, and, after turning the pad to the angle desired and entering the spur *c* into the corresponding hole *d*, again tightening the set-screw *v*.

In order to relieve the spur *c* of excessive strain, and still further secure the pad in its desired position, the adjacent surfaces of the two plates may be serrated, as illustrated in Fig. 3 of the drawing, so as to prevent their sliding upon each other.

By pivoting the main plate to one extremity of the back plate and confining at the opposite end thereof in the manner described, it is better enabled to hold the pad in its required position; and by means of the broad base of the back plate the main plate is invariably supported throughout its length, and the pivot relieved of torsional strain.

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

The back plate *b*, widened at the base, and provided thereat with a series of holes, *d*, and the main plate B, pivoted near its top edge to the upper end of the back plate by means of set-screw *v*, and provided at its bottom edge, and directly underneath the perennial-strap attachment, with spur *c*, adapted to engage the holes *d* aforesaid, all constructed and combined substantially as described and shown, for the purpose set forth.

In testimony whereof I have hereunto set my hand this 17th day of April, 1878.

WILLIAM L. TUCKER.

Witnesses:

D. C. LAASS,  
H. HILL.