

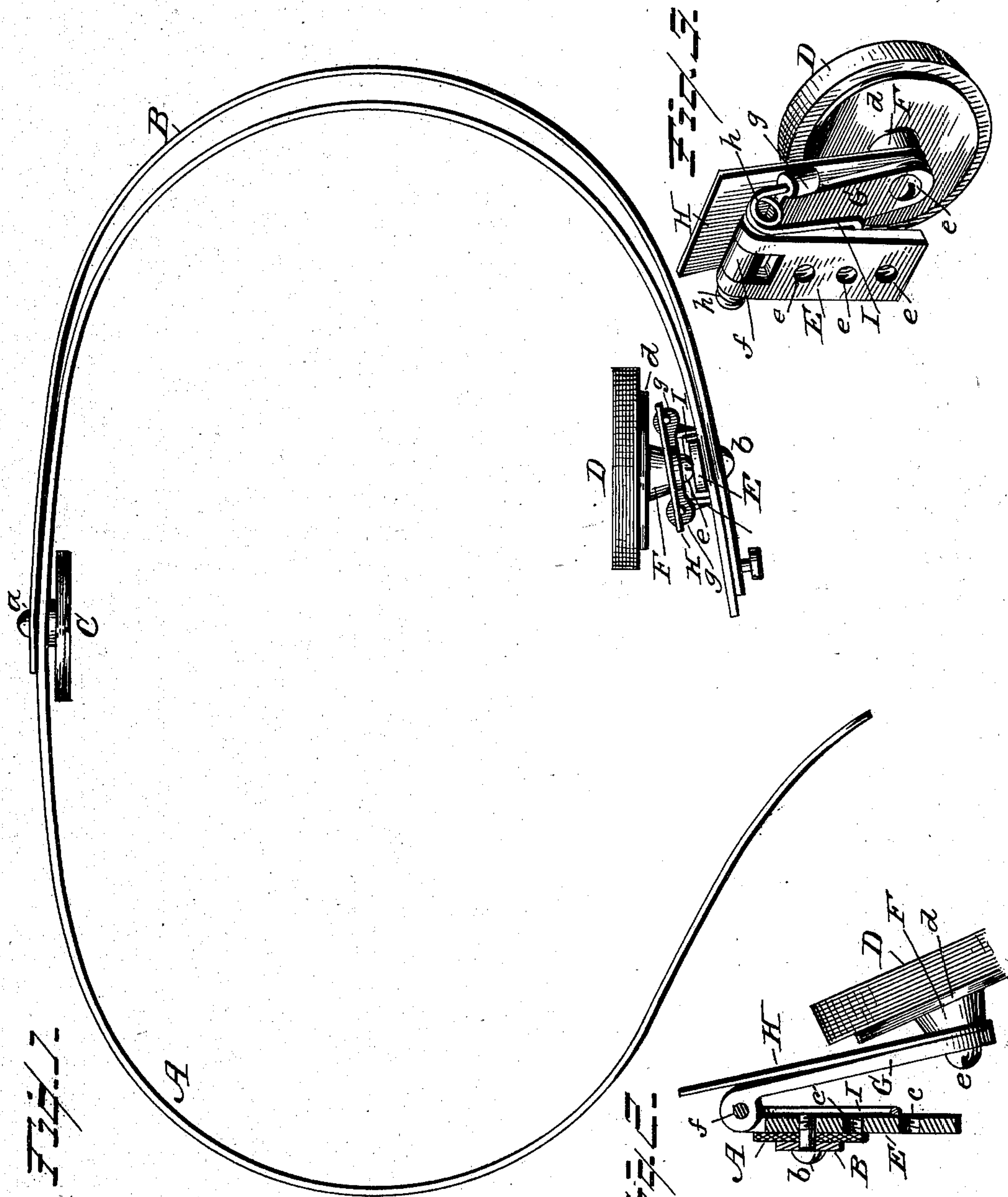
No. 736,356.

PATENTED AUG. 18, 1903.

M. B. BROOKS.
TRUSS.

APPLICATION FILED APR. 24, 1903.

NO MODEL.



WITNESSES:

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MOTT BILLINGS BROOKS, OF ROCHESTER, NEW YORK.

TRUSS.

SPECIFICATION forming part of Letters Patent No. 736,356, dated August 18, 1903.

Application filed April 24, 1903. Serial No. 154,151. (No model.)

To all whom it may concern:

Be it known that I, MOTT BILLINGS BROOKS, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, having invented certain new and useful Improvements in Trusses; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has for its object to provide a truss that will give ease and comfort to the wearer, that will successfully support the rupture by a simple and effective pad, that will make its own pressure, and that can be revolved and tilted as circumstances would require and rendering it impossible for the hernia to become misplaced, there being no irritation, chafing, or any uncomfortable feeling to the person wearing the truss.

The invention consists in a truss constructed substantially as shown in the drawings and hereinafter described and claimed.

Figure 1 of the drawings is an edge view of the truss complete and embodying my invention; Fig. 2, a detail sectional view on an enlarged scale, showing the pad and its connections; Fig. 3, a detail perspective view of the pad and its connections.

In the accompanying drawings, A represents the usual belt of leather or other like material in contradistinction to metal, and B a flat metal band connected to the belt at its ends only by means of the screws *a b*. This band B is not intended as a spring-band, although it is preferably constructed of untempered steel, so that the wearer can bend and shape it to the body.

The belt A, which surrounds the body, must only be drawn sufficiently tight to prevent slipping down over the hips, the metal band B setting slightly away from the belt and does not touch it except at its ends, and consequently there is no chance for any chafing. The screw *a*, that secures one end of the metal band to the belt, also serves the purpose of attaching the usual back pad C, which pad may be of any suitable construction found best adapted to the purpose.

The hernia-pad D is connected to the belt at one end thereof, and the screw *b*, which

connects the end of the metal band to the belt, also connects thereto a bracket E, said bracket having a plurality of screw-holes *c* for the screw *b* to engage to connect the bracket to the belt. It should be noticed that this bracket is adjustable both vertically and laterally, the screw-holes enabling it to be moved vertically up or down to change its position with relation to the belt, and also laterally, the screw acting as a pivot upon which the bracket turns sidewise in either direction, and when the bracket is adjusted to the position required the screw is tightened to hold it in its adjusted position. This adjustment of the bracket will bring the pad, which is connected therewith, in the position desired by the wearer, and also to the necessary position to act most beneficially on the hernia, this compound adjustment of the bracket being considered of essential importance to the effectiveness of the truss.

The hernia-pad D, which may be of any suitable material, such as felt or a soft yielding material, is secured to a metal disk *d*, formed with a cam-head F upon its outer side, said cam-head having a screw-hole with which a screw *e* engages to connect to the head a finger G, and also a protecting-flap H, of leather or other suitable material, to avoid contact of the metal with the body. The finger G is suitably hinged to the bracket, as shown at *f*, and is formed with laterally-extending lugs *g*, in which are held the ends of a spring-yoke I, connected thereto by molding the metal around the ends of the yoke or by any other means found most preferable, the yoke having coils *h* to give the yoke the necessary spring action to hold the pad against the hernia. The spring-yoke I bears against the bracket E, and the finger G, being hinged, through the medium of the spring the pad D will have a yielding action, as required in a successful truss, while the cam-face of the head F will enable the pad to be tilted as it is turned on its axis, thereby adapting it to every requirement. As will be seen, there are five separate adjustments to the pad—viz., the vertical and lateral adjustment of the bracket, the automatic adjustment of the finger by virtue of its being hinged to the bracket and through the medium of the spring-yoke, the turning of the pad upon its pivotal connec-

tion, and the tilting of the pad as it is being turned on its axis, thereby bringing the pad in the best possible position with the required pressure to a successful treatment of the rupture or hernia.

Every provision is made to secure comfort to the wearer by the several adjustments above described and the mechanical construction of the parts, removing any inconvenience in wearing the truss at night or when working or at any other time, the pad receiving its pressure from the spring-yoke, and so adjusted that it is impossible for the hernia to become misplaced.

Any severe pressure or binding of the truss is entirely removed and will admit of any exertion without discomfort to the wearer, this advantage being secured by the various adjustments of the pad to adapt it to the condition of the wearer.

The metal portions of the truss, with the exception of the flat metal band, may be constructed of any suitable metal, but preferably of aluminium for reasons of its lightness, and any changes or modifications in the several details of construction as would come within ordinary judgment may be resorted to without departing from the principle of the invention.

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

1. A truss comprising a suitable belt, a bracket connected thereto and capable of vertical and lateral adjustment, and a spring yielding pad connecting with the bracket, substantially as and for the purpose specified.

2. A truss comprising a suitable belt, a flat untempered-metal band connected thereto at its ends only, a bracket connected to the belt and capable of vertical and lateral adjustment, a suitable pad connecting with the bracket, and a spring-yoke interposed between the bracket and pad, substantially as and for the purpose described.

3. A truss consisting of a suitable belt, a

bracket connected thereto and capable of vertical and lateral adjustment, a finger suitably hinged to the bracket, a pad pivotally connected to the finger, and a spring-yoke interposed between the bracket and finger, substantially as and for the purpose set forth.

4. A truss consisting of a suitable belt, a bracket connected thereto and capable of vertical and lateral adjustment, a finger hinged to the bracket, a spring-yoke interposed between the bracket and finger, a suitable pad connected to the finger, and a flat untempered-metal band connected to the belt at its ends only, substantially as and for the purpose specified.

5. A truss consisting of a suitable belt, a bracket connected thereto and capable of vertical and lateral adjustment, a finger hinged to the bracket and having laterally-extending lugs, a wire spring-yoke having coils at its ends and connected to the lugs, and a suitable pad connected to the finger, substantially as and for the purpose described.

6. A truss consisting of a suitable belt, a bracket connected thereto and capable of having a vertical and lateral adjustment, a yielding finger connecting with the bracket, and a suitable pad pivotally connected to the finger and having a disk with a cam-head, substantially as and for the purpose set forth.

7. A truss consisting of a suitable belt, a flat untempered-metal band connected to the belt at its ends only, a bracket connected to the belt and capable of having a vertical and lateral adjustment, a finger hinged to the bracket, a spring-yoke interposed between the bracket and finger, a suitable pad having a disk formed with a cam-head, and a suitable screw for connecting the finger to the head, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

MOTT BILLINGS BROOKS.

Witnesses:

M. H. PERRY,
A. B. PERRY.