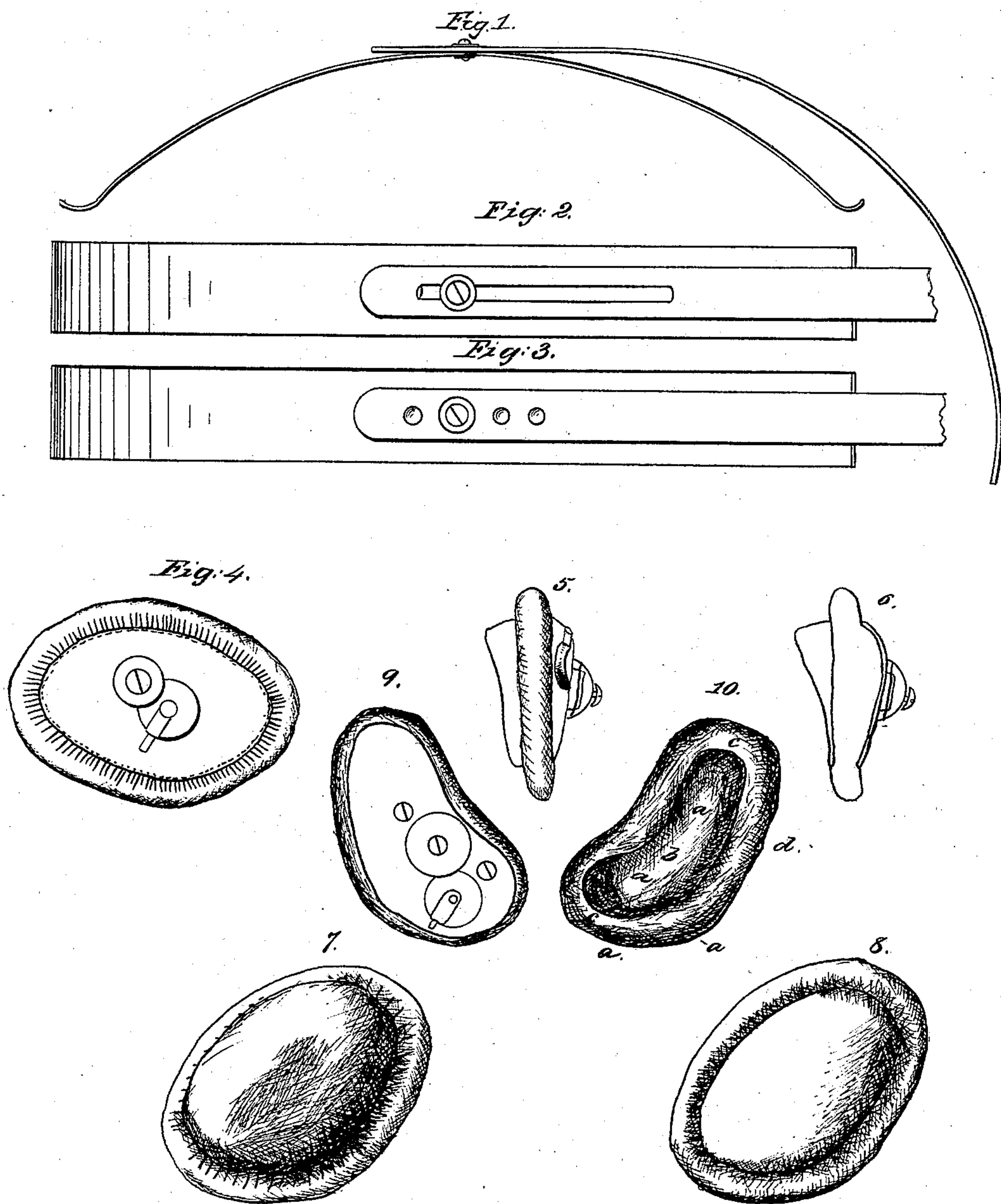


*F. M. Butler,*

*Truss.*

*N<sup>o</sup> 8,837.*

*Patented Mar. 30, 1852.*





# UNITED STATES PATENT OFFICE.

FREDK. M. BUTLER, OF NEW YORK, N. Y.

## TRUSS.

Specification of Letters Patent No. 8,837, dated March 30, 1852.

*To all whom it may concern:*

Be it known that I, FREDERICK M. BUTLER, of New York, in the county and State of New York, have invented a new and useful improvemnet in the truss-pads and also in a back spring pad for either supporters or trusses; and I hereby declare that the following is a full and exact description thereof.

To enable others to make and use my invention I proceed to describe the construction of it, reference being had to the annexed drawings, which make a part of this specification. Figure 1 is an edge view of the back spring pad with the truss strap or spring attached. Figs. 2 and 3 plan of the back spring; Fig. 4, back of the concave pad as improved over former patent; Fig. 5, edge of the same; Fig. 6, section of the same; Fig. 7, perspective of the same; Fig. 8, face of the pad; Fig. 9, back of convex pad entirely new; Fig. 10, face of convex pad entirely new.

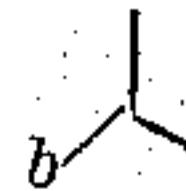
My improvements consist—first in adding a flexible yet somewhat firm ridge or projection to the outer boundaries of my improved pad lately patented, and thus, by overreaching the boundaries of the thigh and pubis, preventing the pledget or inner part of the pad being borne too far in upon the abdomen beyond those boundaries.

The inner pad or pledget, itself is substantially the same as that patented by me 22d July 1850—that is, all that part which bears upon the abdominal or inguinal canal lying above the pubis and within the boundaries of the thigh. That which is new to said pad is the ridge, (see Fig. 4 where in all that part of the figure outside of the red portion of the center is the ridge) the purpose of which is to make the truss less painful—and to keep it in the same true position without bearing in beyond its proper limit. The edges of the pledget are rounded as expressed in the language of my former patent—dated 22d July, 1850. Without this ridge the pad presses unequally, in the various motions of the body, and oftentimes so severely as to be painful. The ridge being added to it, the pad will press upon the rupture sufficiently to heal it or secure it and the ridge resting mainly on the pubis and the thigh and but partially on the abdomen, prevents any excessive pressure being made upon the abdomen by the pledget how-

ever (reasonably) strong may be the spring of the truss.

The construction of the pledget is the same as that described in my patent dated 22d July 1850—the size of the plate being the same as shown in previous drawings—the ridge being made by extending out the blanketing or padding.

Second, my invention further consists in forming a convexed hernial pad which described in parts is thus: The inner portion or pledget *a a*, Fig. 10 of drawings agrees with the edge pressure of my previously patented truss pad and is in form an L opened or made obtuse in angle thus



and raised throughout but mostly so at the heel being that portion through the pledget marked *b* Fig. 10. All the edges or angles of the pledget are rounded off; and it is also placed upon a bed or flattened surface as *C, C*, Fig. 10, which plane or surface overreaches the boundaries of the pledget and has in like manner all of its edges or angles rounded off especially those of the under and outer boundaries as at *d d d* Fig. 10, being those portions agreeing with the ridge Figs. 4 and 8, which when fitted will be found to overreach the boundaries of the thigh and pubis and serve to give support or bearing to the pad upon those boundaries and thus prevent the pledget *a, a*, Fig. 10 being borne too far inward beyond them. This pad (convex inguinal) may vary in size both as regards the length breadth and thickness of the bed upon which it is placed the size however will generally be that of the drawings. It may be made with plate and blanket as in other pads or made solid as of wood or cast in metal gutta percha or other similar substance.

Third—my invention and improvement further consists in forming an elongated spring—in shape substantially the segment of a circle to serve the purpose of a back pad or by overreaching the projections of the vertebrae to bear upon the buttock on either side—and so avoid pressure upon the spine. This back spring is made of different thickness to suit required pressures and generally an inch or three quarters of an inch or more in width—and in length from seven to nine inches for adults. The curve is gen-



erally the segment of a nine inch circle—  
but all these particulars must vary accord-  
ing to circumstances—as in very hollow  
backs the spring would not be a segment  
5 of a circle—but varied in shape to suit the  
person. The back spring covered as a pad  
is connected with the main truss or sup-  
porter at the guard-spring's center.

What I claim as my invention and desire  
to secure by Letters Patent is— 10

The application to trusses and supporters  
of the guard spring pad as above described.

FREDK. M. BUTLER.

Witnesses:

OWEN G. WARREN,

WM. H. MEEKS.