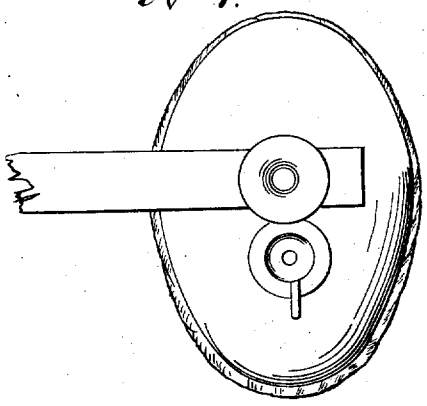
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# A. G. Hull,

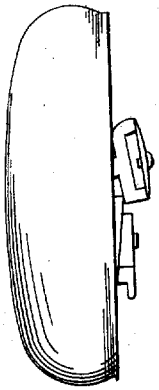
## Truss.

Patented July 5, 1833.

No. 1.



No. 2.



AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS.)

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July 5. 1833 40.

James G. Hull

# Letters Patent.

The Schedule hereunto annexed and referred to in these Letters Patent, and making part of the same, containing a description in the words of the said James G. Hull himself, of his said improvement in the surgical instrument called the Truss, to be used in varicocele, and in some cases of Funicular, Scrotal Hernia.

This improvement is intended particularly for the cure of varicocele which is an enlargement of the blood vessels connected with the spermatic chord. In the application of the truss to this disease, the object is to compress the enlarged blood vessels, so as merely to close up their calibre, for which purpose, the diseased vessels which lie in the cavity of the scrotum, the bag containing the testicles must be gathered & raised up under the integuments, and brought opposite the abdominal ring when they may be subjected to pressure by applying the pad directly upon them. The form and direction of the pads to which the pad is applied in case of varicocele, are such that a flat or even concave pad may be used with success. The lower portion of the pad ought to be pressed upon the bone called in books of Anatomy "os pubis" at that place where the spermatic chord rests over that bone, it is essential to the successful application of this instrument, that the degree of pressure made upon the chord should be diminished or increased by the patient according to his sensations in the seat of the disease it being important to avoid giving to the nerve which it is indispensable however, to make pressure sufficient to prevent the swelling of the blood vessels, which constitutes the disease. To accomplish this object, a contrivance has been made by this applicant which is to be used in connection with the instrument for which this application is made and bearing date the 4th of July 1833 a true description whereof is given in the words of the said patentee himself is as follows viz

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connection of the spring to the post by means of a metallic bush or button having a cylindrical hole, & the end of the spring being turned round & made to enter the hole in the button or bush so as to admit of a limited motion of the end of the spring by which the distance of the free spring end from the post may be increased, or made to approach nearer to the post, so as to act at different angles with a constant pressure, if combined with a point or fine direction upon the principle described in the before mentioned Patent of this applicant. In the patent before described this applicant has added a circular wedge the operation of which is to depress the lower portion of the pad which is applied to the rowel. This wedge is a metallic plate of brass or steel about 1 ½ of an inch in breadth at the upper part of which the margin is cut away or turned to form a spiral inclined plane; of about one eighth of an inch in width. This plate or the pad plate at such distance from the centre as to bring the margin of the wedge which forms the inclined plane under the button head and is attached to the pad plate by a rivet of iron or brass round which it revolves like a wheel round its axle by a revolution of this circular wedge, the part of the spring to which the pad is attached is made to form an angle with the plane of the pad of from one to twenty five degrees, by this picture the patentee is enabled to increase or diminish the pressure of the lower margin of the pad which presses upon the skin from the first to the last as the beginning of his easing requires. For a more explicit understanding of this contrivance reference is made to the drawing of the various pads hereto annexed which is to be taken as a part of this specification. The feature in the specification described may also be applied with success in some cases of Funeral & Surgical Bandages. When it is necessary to vary the degree of pressure more than can be done by the instrument commonly used in these kinds of Bandage—

New York June 5th 1833

Witness
Alex. M. Bruce
Henry Shinn

Amos B. Wells

(Pr ex portfolio)

JSK