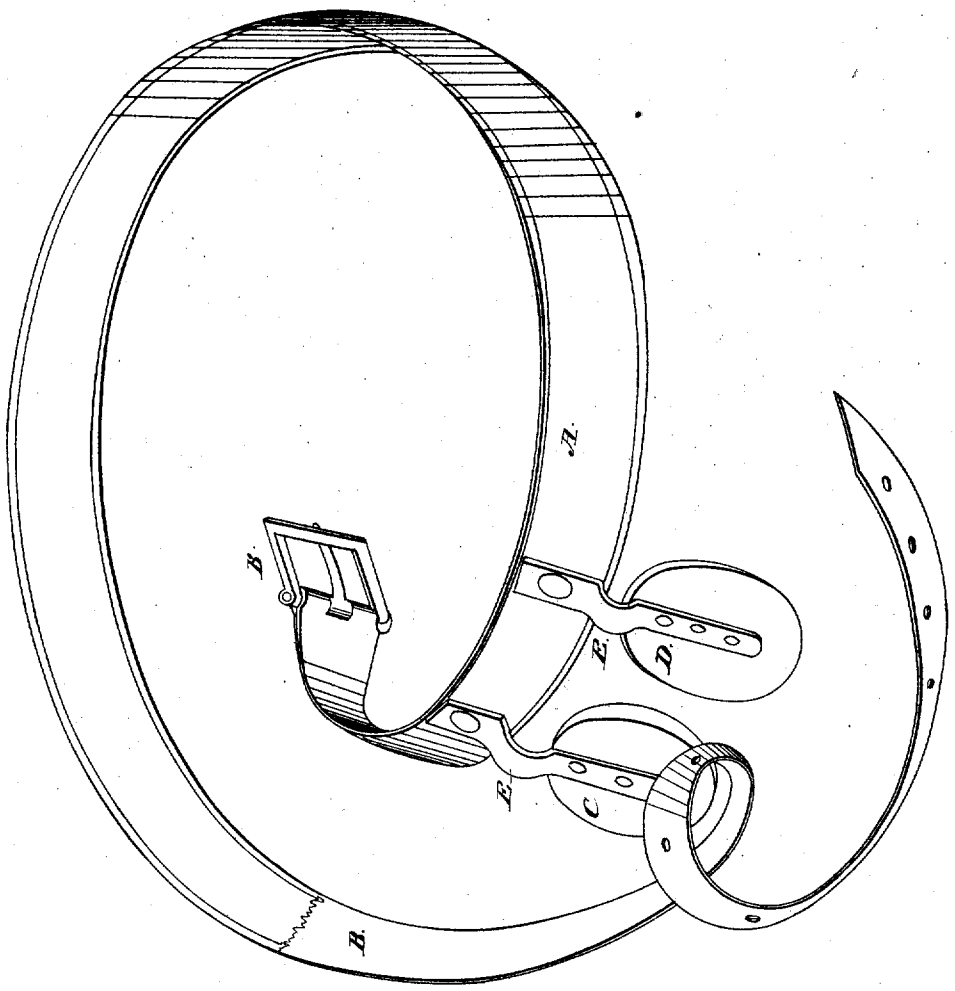
No Printed Specification Available

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J. Knight,

Truss.

Patented Dec. 14, 1830.



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

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James Knight, of Baltimore, Maryland

Letters Patent.

The Schedule referred to in these Letters Patent and making part of the same, containing description in the words of the said James Knight himself, of his improvement in Trusses.

To all to whom these presents shall come:

Be it known that I, James Knight of the City of Baltimore, in the County of Baltimore and State of Maryland have invented a new and useful improvement in trusses, and that the following is a full and exact description of the construction and operation of the said Machine as invented or improved by me.

I shall first give a description of Amos G. Hull's Patent hinge and pivot by way of pointing out clearly the nature of my improvement. The construction is as follows; Two concave pads are attached to an elastic steel spring by means of a hinge and pivot; this spring passes from one groin over the other and across to the spine where one of the pads is placed and the other in the groin over the rupture. This truss is attended with many disadvantages and inconveniences among which is the pressure on the spine in young people; This pressure which must necessarily be considerable in order to keep the instrument in its place, bears on certain points of the spine and on the rupture, and is frequently on its first application so painful as to be insupportable for more than a few hours at a time when the rupture is bad. The hinge and pivot in the centre allow the pad to have motion in every direction and in certain attitudes of the body the intestine may be irritated and great pain produced. In order to overcome this inconveniences he applies two of his springs one on the other and so fixes the object cannot always be accomplished. I have endeavored to overcome these difficulties and shall now give a description of my

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my truss; the pad is near my spine on the back; the pad over the rupture is concave so as to correspond with the slight convexity of the abdomen and is sustained over the rupture by means of a small steel spring which is also curved to suit the convexity of the abdomen and is riveted fast to the metallic plate in the back of the pad; the other end of this spring is attached to an elastic steel Mainspring by means of a rivet with a large head which allows a lateral motion to the small spring. The main spring is covered with leather and buckles around the hip when it is fixed. In applying this truss the spring must be brought round the body in the same manner as in the application of A.G. Mills truss, the small spring will form an angle with the main spring and the pad will be in perfect coaptation with the hernial parietes. as the end of the main spring which is above the rupture extends a small distance from the abdomen, when the truss is buckled perfectly tight the pad will press sufficiently to keep up the intestine in the most difficult cases of hernia without producing pain, and the pressure is by this means rendered equal around the body; this circumstance is of great importance in the treatment of hernia in labouring people and in infants as the truss can be kept on with ease whilst they are in the recumbent position. A.G. Mills truss on the contrary cannot be worn while the patient is lying down in consequence of the pain caused by the pressure of the back pad on the spine, In my truss the pad is kept in perfect coaptation with the hernial parietes under every possible inflection or attitude of the body by the elasticity of steel Spring and not by a hinge and pivot as in A.G. Mills truss. This latter arrangement allowing of too much motion, whilst the elastic spring having a permanent tension yields to all motions required but always maintains an equal pressure

What I claim as my invention and improvement in a truss which is made to press equally around the body by means of an additional spring and fixed concave pad; the pressure being

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being graduated by means of a strap and buckle by which the truss is permanently fastened round the body marking it different in principle from all other trusses; my truss can be worn, sitting, lying or standing with so little inconvenience as to be worn by the youngest infant. 6d. Mfl.

Witnesses
Caleb Jones M.D.
Wm Reid. M.D.

James Knight, M. D.

(807 Words)

(Patented 14th December 1876)