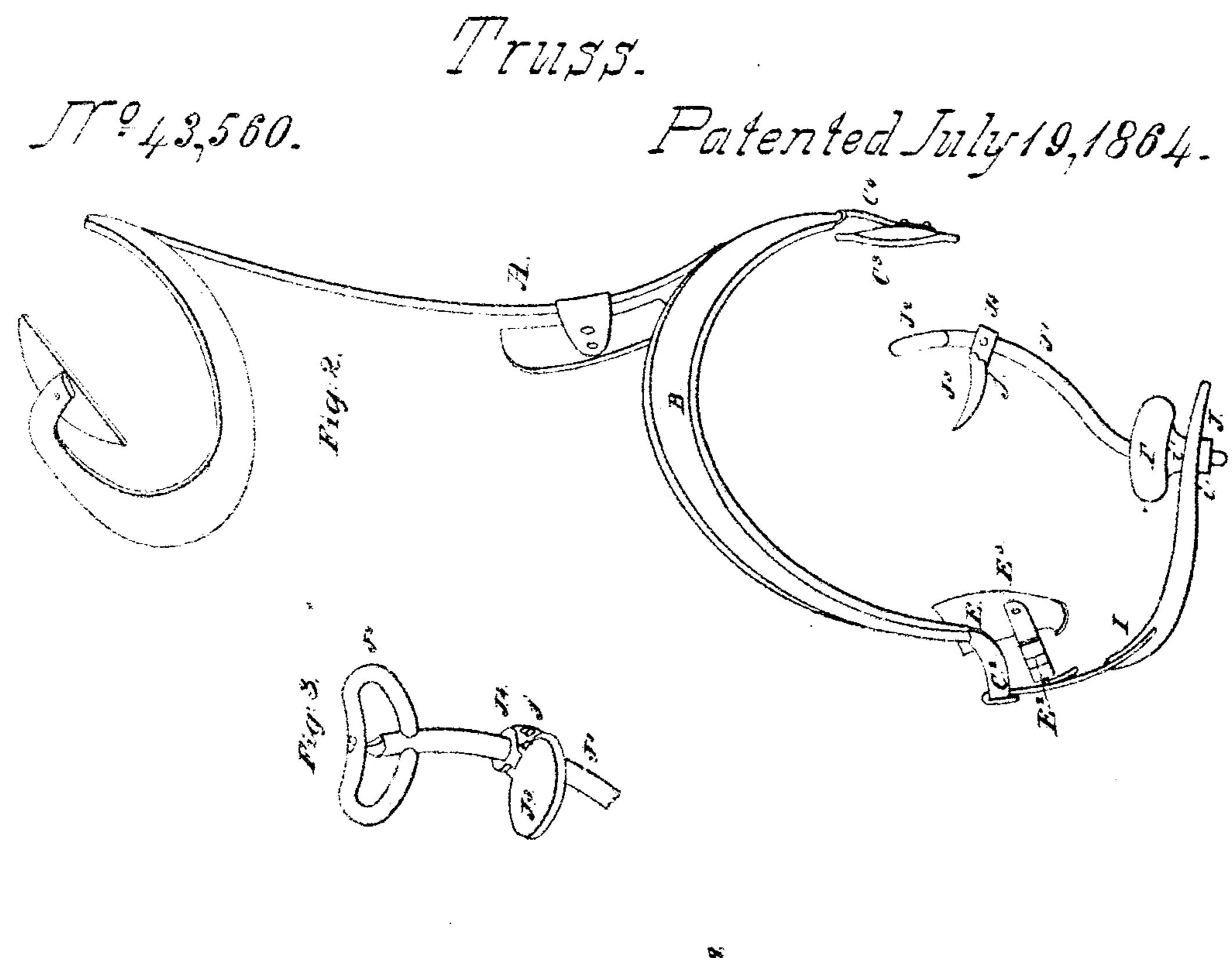
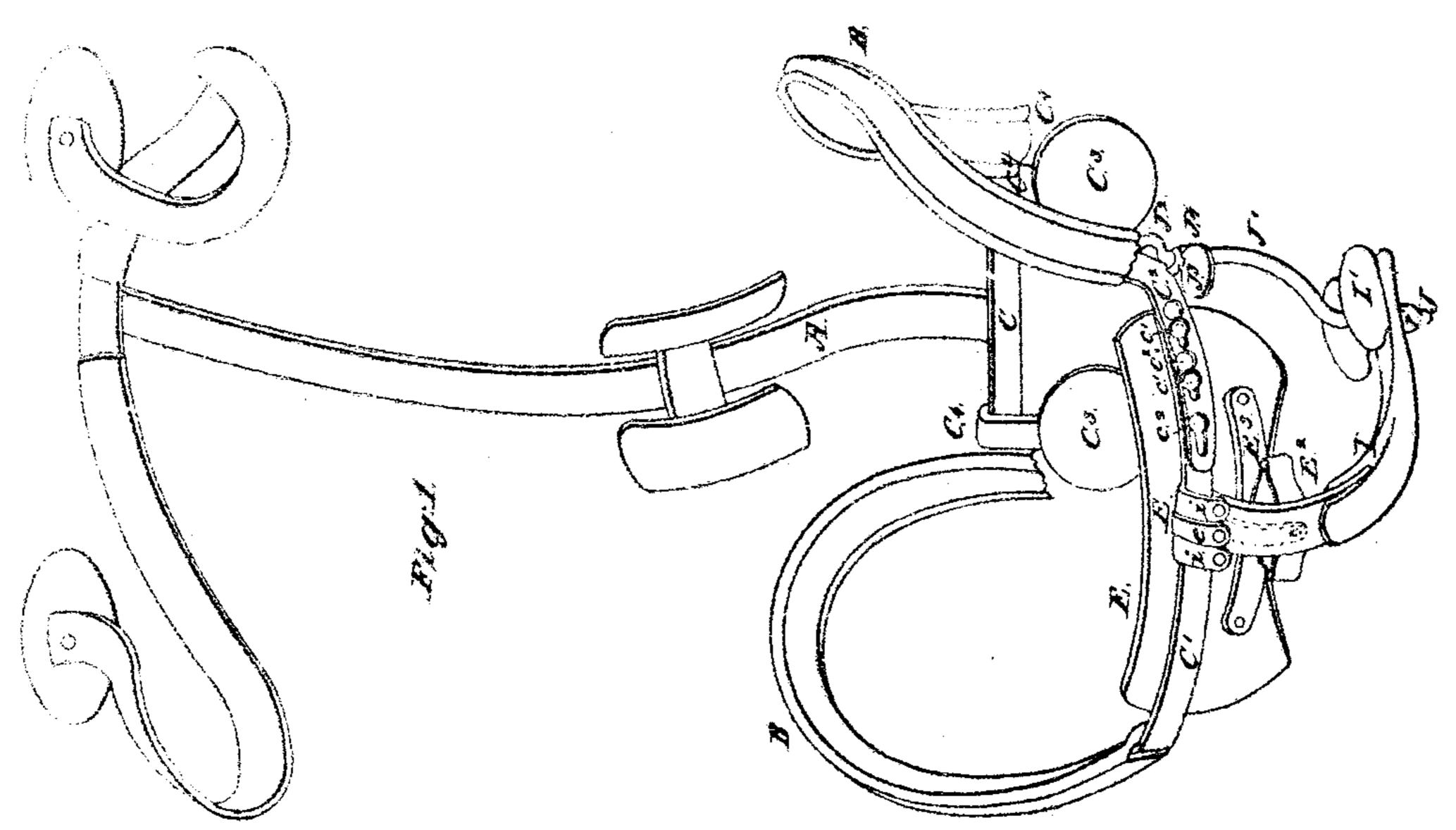
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IMPROVEMENT IN TRUSSES FOR UTERINE SUPPORTS.

Specification forming part of Letters Patent No. 43,360, dated July 19, 1864.

To all whom it man concern:

M. D., of the city, county, and State of New projecting catches c, which enter either of a York, have invented a certain new and Im-series of corresponding apertures, c2, in the proved Uterine Support or Balance; and I do Dar C2, whereby the springs B B may be sehereby declare the following to be a full and curely retained in any position in which it is exact description of the same, reference being desired to adjust them. had to the accompanying drawings, making To the rear bar, C, are attached hip-pads

of the same.

sponding parts in the several views.

derangements of the pelvic organs.

which my invention appertains may be en- ing, precisely as a person when fatigued re-

oreration.

s nt springs, which are arched or curved in such firm bearings for them to rest upon that the manner shown, and either formed in one—they will be uninfluenced by any movement of piece with the horizontal bar C or securely the body whatever, and from their, peculiar attached thereto by screws or in any other construction and adaptation are capable of suitable manner. The bar C passes through sustaining a great amount of weight; even and is firmly fastened therein by a screw. The ling pain, strangulation, or impediment in curved springs B B may be made to exactly walking. conform to or fit the arch of the innominata | As, hitherto constructed, the horizontal or side bones of the hips, and when adjusted bands or braces which pass around and outto the person and employed in connection with side of the hips are very defective, as they are the other parts of the apparatus to be do; caused to assume lower positions under pressscribed, said springs exert a regular and even jure or weight, and constantly compress the pressure at the sides and upon the front and hinder parts of the body throughout their entire extent, their position when adjusted being just above and inside of the crests of the hip-bones. At their front ends or the ends opposite those conjoining the bar C the springs B B may be connected by bars C' C2, which occupy about the same horizontal plane as the bar C, and cross the body at a point say one and one-half or two inches above the pubes. The bars C' C2 may in like manner with the bar C be formed in one piece with the springs B B, or separately, as may be preferred, and they are adapted to be turned open to any extent to admit of the application of the springs cured in position by a screw, e. The lower

BB to the body and from what may be termed Be it known that I, EDMUND P. BANNING, a "slip-lock," the bar C' being provided with

part of this specification, in which— C3 C3 by means of short perpendicular springs Figure 1 is a perspective view of my im- C'C', which are so curved inward as to adaptproved apparatus. Fig. 2 is a side elevation the pads Co Co to press upon the glutei muscles in such a manner as to prevent the bar Similar letters of reference indicate corred C from squeezing or chafing the hips. These pads C3 C3 constitute the rear distal points of This invention relates to an apparatus that the main spring's power, and they not only may be employed with salutary effect by fe- protect the bones, vessels, nerves, and musmales suffering from prolapsus uteri or other cles from the pressure of the bar C, but by their firm pressure upon the belly of the glutei In order that others skilled in the art to muscles they greatly support and aid in walks abled to fully understand and use the same, I ceives support and rest by pressing the hands will proceed to describe its construction and upon the hips. When the springs B B are sted to the hips, they are not liable to ac-In the accompanying arawings, B B repre-cidental; displacement, the hips constituting a loop formed on the lower end of a bar, A, the weight of the whole body, without caus-

> muscles, strangulate the vascular and nerve circulation, and are peperually shirking or slips ping as the patient bends or shifts his weight from one foot to the other, thus depriving the wearer of any firm or reliable support, and producing uneasiness, numbness, and dissatisfaction generally. It is evident that by my invention these difficulties are altogether ob-

> viated. E represents a plate or pad attached to the front bar, C', at a point equidistant between the front ends of the main spring B B hy means of a short and curved vertical springs Exphich is looped over the bar C' and sea

eage of the plate E is of such length and resting and stimulating by pressure. The shape as to fit just inside of the bony bound. screw or threaded stem J, which supports the ary of the lower abdomen, and through the pad I', is formed on the end of a rod, J', which medium of the curved springs E' and the ellip- may be composed of hard rubber, guttatical and semi elliptical spring E2E3, which are percha, metal, or other suitable substance. It interposed between the lower end of said may be curved in such manner that when inspring E' and the plate E, the inner face of troduced into the vagina its convexity will just the latter is presented in such an upward and 'fit the coneavity of the sacrum and the curve backward direction or position that when in of the rectum without touching either of them, contact with the body it has an almost exclu- or the rod J' may be made straight or angusive lifting or upward action, and does not (as lar, if desired. This rod J', when inserted in the case with front plates of other supports) into the vagina, should reach about as high have to depend upon traversing the periphery as the posterior fundus of the uterus, and in or sweep of the long main spring, in which the top of said rod is attached a cross-piece, c se the upward movement exerted on the J2, which may be either adapted to rotate body by the plate is scarcely anything when upon the rod J' or fixed in a rigid position compared with its backward movement, which thereon, and formed in one piece therewith. causes only a squeezing or pressing upon the This cross piece, when the rod J' is introduced, bowels.

ing inward on its axis gives an elevating and fold of the vagina upward before it, and, in supporting action not only upon the lower proportion as it does this, so stretches it as to link of howels, but also upon the whole line; compel the os ateri to be drawn back from the of viscera. The value of this peculiar lifting axis of the inferior to that of the superior action of the front plate, E, in the cure of affect strait of the pelvis, while the top or cross tions of the spine, chest, abdomen, pelvis, and | piece, J2, crowds the fundus uteri forward from extremities will be apparent.

loops to admit of its ready attachment to the for antiversion is prevented, or a retroverted bar C', upon which bar it is secured by means | uterus is restored to its altitude and proper or screws, i. This spring Lis adapted to pass | axis without touching the uterus or rectum, down over the pubes and extend back be. but simply by elevating the vaginal septum tween the limbs to the posterior nares of the in the curve of the superior sacrum, and also vulva. At the lower rear end of the spring I | prolapsus of the urinary bladder is removed. is supported a pad, I', by means of a screw, J' | But to avoid danger of irritation or ulceration which may be secured in either of a series of by a too steady pressure of the cross-piece J2 apertures or slots in the spring I, and re- on the vaginal tissue, I construct a stirruptained in an immorable position by nuts or cup, J3, of shape and size adapted to receive washers i' i'. This pad or block I' in shape and fit the os uteri. This I attach to the may be likened to two fingers placed side by curved rod J'by means of a sliding ring, J, side, the two convexities thereof, when the and adjust it to any desired position upon the pad is applied, pressing on the outer edges of rod J' by a set-screw, j, which passes through each labia, and the depression between them, the ring J4 and enters either of a series of or in the center, protecting the inner edges small holes which may be formed in the rod from any pressure or opening action; but, on [J'. The cup J' and ring J' are attached tothe other hand, the block closes the meatus gether by a hinge, which is so formed as to extermus by pressing the labiae together. It allow the cup to fold up against the rod in is manifest that there is a cardinal difference | introducing the uterine balance J2 into the between this device and the perineum sup- vagina, and then allow it to fall to a horizonports hitherto employed, as they are invari; tal position, or, rather, to a right angle with ably convex and have a separting or opening | the rod, to cause it to assume which position effect upon the libia, which is very prejudi- a cord may be employed. When introduced, cial, as it increases, the very weakness and | the rod J and cross-piece J: restore the desired falling through the vulva which it is desired | uterine axis, and the cup J3 lifts the whole to avoid. The pad I' has a deep niche cut out | uterine body, and hence the pressure is so at both ends, so as to allow of the passage of | divided between the cross-piece J² and cup J³ both urine and feces without its removal. The | that there is no danger of irritation or ulceraspring I and block I' are designed to unite tion, and the uterus is compelled to assume with the front pad, E, in relieving the prolap- lits position and retain it so long as the piece ses uterior of the bladder, and antiversion of | J2 is supported to a proper height. To do this the uterus. Thus, while the plate E raises the | and to prevent the uterine balance J' rotating weight from the sinking womb and bladder, in the vagina, the threaded protruding portion the spring I and block I' impart the relief J of the rod J' is made flat at its sides, like a by gently lifting between the limbs and ex- tenon. The slot in the carved spring I citing the natural and relaxed boundaries to through which this tenon J passes is made

passes behind the uterus and before the rec-In my invention the front plate, E, in turn- | tum, and carries the intervening and relaxed the axis of the inferior to that of the superior I represents a curved spring formed with strait; in short, lateral obliquity, retroversion, activity and strength, thus supporting and like a mortise, so that when inserted the rod

tatory movement. The spring I both crowds object in view, but the combined action of the up the balance J² and holds its convexity to the concavity of the sacrum. To prevent the too forcible ascent of the balance J' J2, the following is what I claim as new therein and block I' is slipped upon the tenon J previously desire to secure by Let'e's Patent. to the insertion of said balance, and thus, besides covering and supporting the vulva, acts and operating substantially as described. as a guard to regulate the desired depth of 2. The cap or block I', constructed with two insertion. Thus, by the joint lifting action of convexities and operating to support the the plate E-elevating the visceral weight up vulva, in the manner described. from the won and cross piece J2 and cup J³ is accomplished the easy and comfortable interine balance J' J² J³, the curved spring removal of uterine retroversion, lateral obliquity, or antiversion, without injurious pressure on the bladder, rectum, or uterus, and without the least debilitating distention of the vagina, us is always produced by the usual globe, ring, horseshoe, and other pessaries. Hence it is manifest that neither the balance

J' is prevented from receiving any undue ro- alone nor the plate E could accomplish the two effects it perfectly.

Having thus described my invention, the

1. The uterine balance J J' J2 J3, constructed

3. In combination with the spring B B and I, adapted, as explained, to permit the ready attachment, removal, and adjustment of the said balance.

E. P. BANNING.

. Witnesses: OCTAVIUS KNIGHT, CHARLES D. SMITH.