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1,552,255

J. M. WILSON

PELVIC TREATMENT DEVICE

Filed April 14, 1924

Fig. 1.

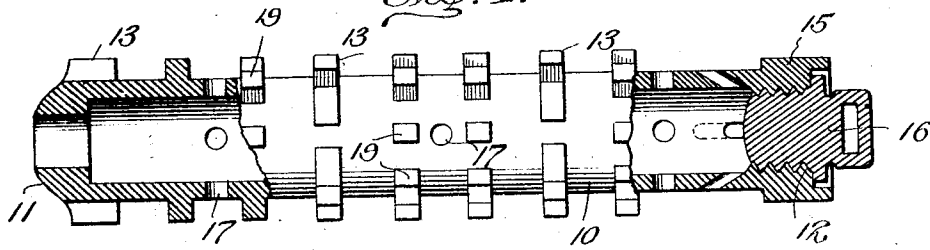


Fig. 2.

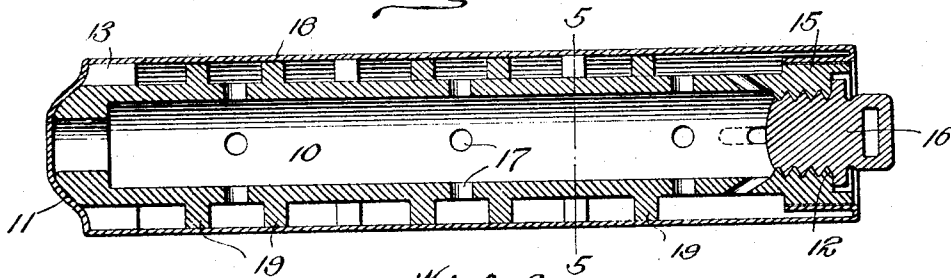


Fig. 3.

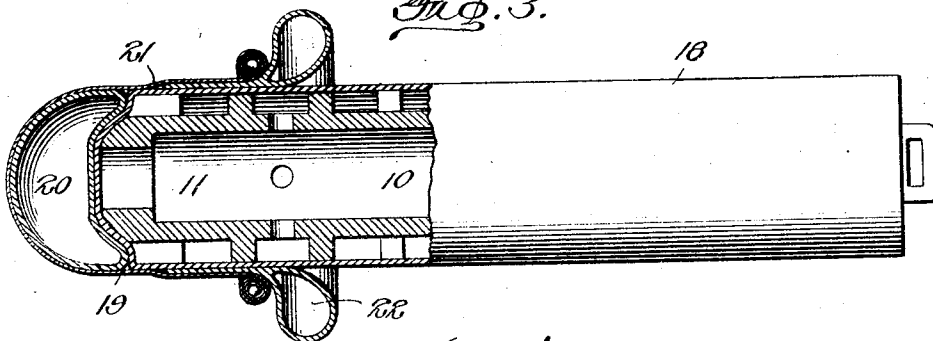


Fig. 4.

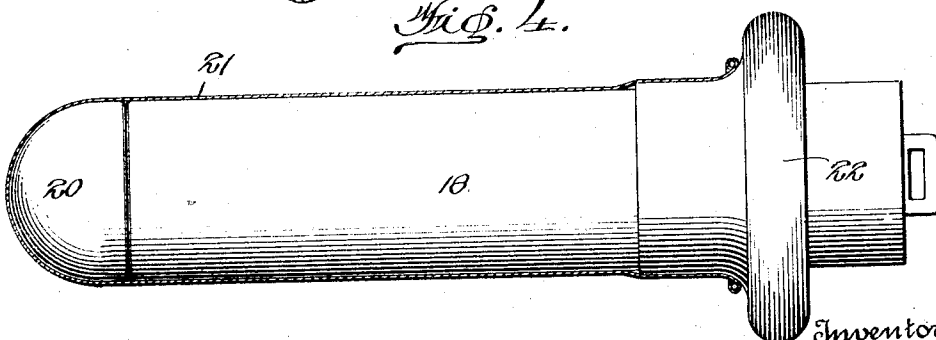
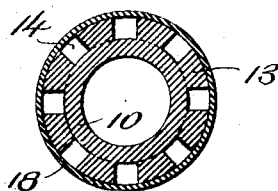


Fig. 5.



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UNITED STATES PATENT OFFICE.

JOHN M. WILSON, OF SAN DIEGO, CALIFORNIA.

PELVIC TREATMENT DEVICE.

Application filed April 14, 1924. Serial No. 706,601.

To all whom it may concern:

Be it known that I, JOHN M. WILSON, a citizen of the United States, and resident of San Diego, in the county of San Diego and State of California, have invented certain new and useful Improvements in Pelvic Treatment Devices, of which the following is a specification.

My invention relates to devices for treating painful affections of the lower pelvic region, particularly of females, by the application of heat, and my improvements consist in the novel features of construction, combination and arrangement of parts of a device for this purpose as will be hereinafter fully described, illustrated in the accompanying drawings and particularly defined in the appended claims.

In the drawings, wherein like characters of reference denote corresponding parts in the different views:—

Figure 1 is a view partly in longitudinal section and partly in side elevation of the body part of my device;

Figure 2, a longitudinal section through the body portion showing the inner sleeve mounted thereon;

Figure 3, a view partly in longitudinal section and partly in elevation showing the parts of the complete device arranged to be used as a pessary;

Figure 4, an elevation of the device showing the outer sleeve in section and the parts arranged to be used as a heat retainer; and

Figure 5, a transverse section on the line 5—5 of Figure 2.

Immediately prior to menstruation many women suffer from severe pains in the pelvic region, due chiefly to a state of congestion attended by more or less inflammation in the vaginal cavity, the uterus, the lower portion of the descending colon, the bladder and adjacent tissues. It is known, however, that heat properly applied to the parts mentioned acts to relieve congestion and inflammation and consequently acts to relieve pains, and accordingly it is the purpose of my invention to provide an improved device for applying heat to said parts.

The body 10 of my device is formed from rubber or other soft pliable material and is of elongated, hollow cylindrical form, being convexly rounded at one end (its inner end) as at 11, and interiorly threaded at the other end (its outer end) as at 12. At its inner end and at one or more places intermediate

its length it is provided exteriorly with circumscribing flanges 13 that are interrupted circumferentially as at 14, while at its outer end is an exterior circumscribing, uninterrupted flange 15. A threaded plug or stopper 16 is provided for engagement within the threaded outer end of the body to close the interior of same, and a plurality of apertures 17 formed in the wall of the body provide communication between the interior of the latter and its exterior between the flanges aforementioned.

An inner sleeve 18 is engaged over the body 10 and is maintained in spaced relation thereto by the flanges 13 and 15 and also by numerous lugs 19 projecting from the body, the closed inner end of the sleeve conforming in shape to and being cemented or otherwise secured against the convexly rounded inner open end of the body, which open end it closes, and the outer end thereof being turned inward and cemented or otherwise secured to the flange 15 whereby a chamber is formed between the body and sleeve that extends the full length of the body and communicates with the interior of the latter through the aforesaid apertures 17.

A hollow inflated member 20 of rubber or other soft pliable material and of substantially hemi-spherical shape, has one face conforming in configuration to and engaged against the closed inner end of the sleeve 18, and over this inflated member and over said inner sleeve is engaged an outer sleeve 21, which outer sleeve, like the other parts of the device, is formed from rubber or other soft pliable material and acts to hold the member 20 properly positioned at the inner end of the device.

The use of my device as thus constructed is apparent and as follows: The stopper 16 is removed and body 10, as well as the chamber between the body and the inner sleeve, is filled with water at a desired temperature, the water flowing from the body through the apertures 17 and through the interruptions of flanges 13 to completely fill the chamber between the body and the inner sleeve. The stopper then is replaced and the device inserted in the vaginal cavity so that the temperature of the water contained therein will be transmitted to the adjacent organs and thus relieve congestion, inflammation and pain, the member 20 acting to shield the delicate uterus from direct contact with the water filled portions of the

device but serving to radiate heat or cold from the device as the case may be in a gentle glow to the uterus as is manifest.

In cases where the vaginal tract is constricted a series of members 20 of progressively increasing size may be used successively to gradually expand the tract. Furthermore, the tonicity of the vaginal walls may sometimes be stimulated and increased by alternate applications of heat and cold and as is apparent my device readily permits of this form of treatment, the uterus being amply protected by air-filled member 20.

As shown in Figures 3 and 4, a flanged ring 22 may be engaged over the inner ring 18 and moved along the latter to a suitable point to engage with the walls of the vaginal tract and thus act either as a pessary or as a retaining means for the heat or cold that is transmitted to the tract by the device. The ring is retained in its adjusted position on the inner sleeve by unrolling the outer sleeve and engaging the same over the flange of said ring, the outer sleeve thus functioning also as a means of imparting a substantially smooth, uninterrupted surface to the device as that irritation of the parts with which it is engaged is avoided.

In any instance where the device is to be retained within the vaginal tract for a prolonged period a strap may be engaged with the stopper 16 and passed around the body of the patient to hold the device in place, the flexible nature of the device due to its construction and the soft pliable material from which it is formed permitting it to yield and accommodate any irregularities in the tract so that discomforts from its presence are unnoticed.

I claim:—

1. In a device of the character described, a hollow inner sleeve adapted to be supplied with fluid at a desired temperature, an inflated member disposed against one end of said sleeve, and an outer sleeve engaged over said member and said inner sleeve to retain the member against the inner sleeve.

2. In a device of the character described, a hollow body having apertures providing communication between its interior and its exterior, flanges extending around said body, and a sleeve engaged over and maintained by said flanges in spaced relation to the body, said flanges being interrupted to provide communication therethrough.

3. In a device of the character described, a hollow body having apertures providing communication between its interior and its

exterior, flanges extending around said body, a sleeve engaged over and maintained by said flanges in spaced relation to the body, and means providing communication through said flanges.

4. In a device of the character described, a hollow body having apertures providing communication between its interior and its exterior, flanges extending around said body, an inner sleeve engaged over said flanges, an inflated member disposed against one end of said sleeve, a flanged ring engaged over said sleeve, and an outer sleeve engaged over said member and sleeve and over the flange of said ring.

5. In a device of the character described, a body element provided on its outer surface with spaced projections, and a sleeve engaged over said projections and supported by them in spaced relation to the body, thereby to provide between the sleeve and body element a chamber adapted to receive a liquid.

6. In a device of the character described, an elongated, hollow, cylindrical body element having openings therein providing communication between its interior and its exterior, a multiplicity of spaced projections on the outer face of said body element, an inner sleeve engaged over said projections whereby it is retained in spaced relation to said body element, an inflated member disposed against said sleeve, and an outer sleeve engaged over said inner sleeve and over said member whereby the latter is retained against the inner sleeve.

7. In a device of the character described, a hollow body element having openings therein providing communication between its interior and its exterior, a sleeve engaged over said body element and supported in spaced relation thereto, and a ring engaged over said inner sleeve and slidably adjustable along the latter.

8. In a device of the character described, a hollow body element having openings therein providing communication between its interior and its exterior, an inner sleeve engaged over said body element and supported in spaced relation thereto, a ring around said inner sleeve slidably adjustable along the latter, and an outer sleeve engaged over a portion of said inner sleeve and over a portion of said ring and acting to retain said ring in its adjusted position along said inner sleeve.

In testimony whereof I hereunto affix my signature.

JOHN M. WILSON.