J. B. DES ROSIERS.

CATAMENIAL APPLIANCE.

APPLICATION FILED FEB. 11, 1914.

1,110,674. Patented Sept. 15, 1914.

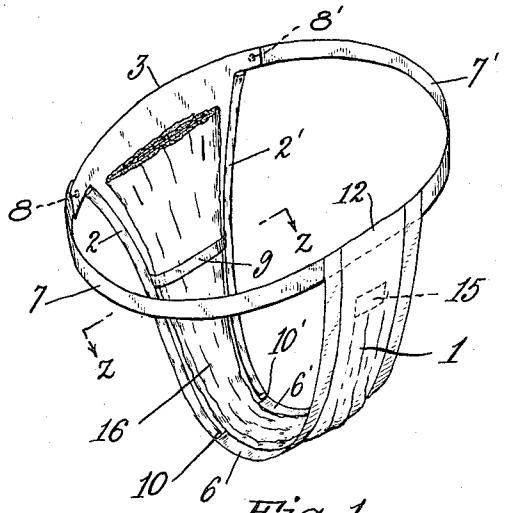

Fig. 1.

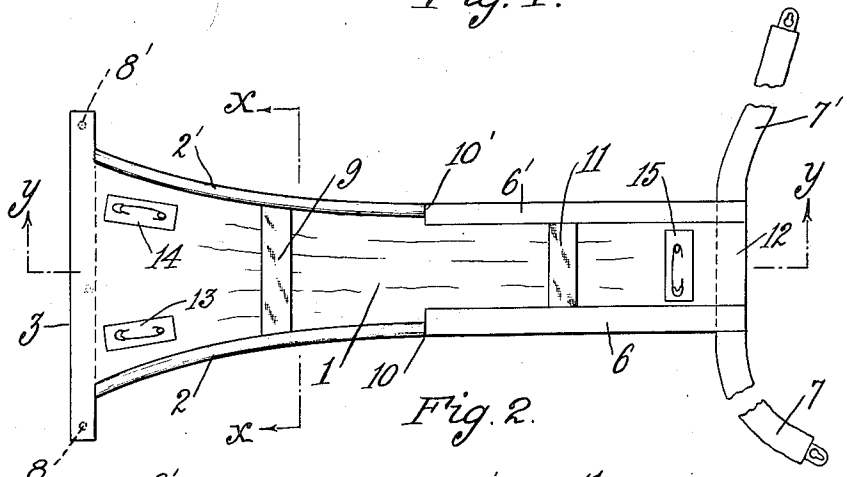

Fig. 2.

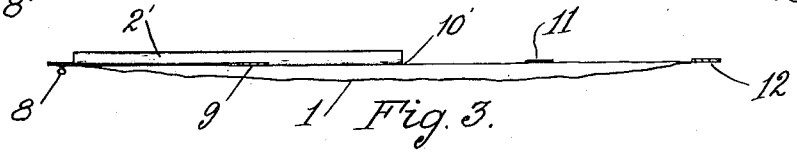

Fig. 3.

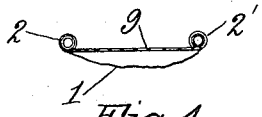

Fig. 4.

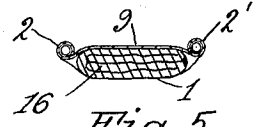

Fig. 5.

Witnesses.

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UNITED STATES PATENT OFFICE.

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CATAMENIAL APPLIANCE.

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To all whom it may concern:

Be it known that I, JOHN B. DES ROSIERS, of Providence, in the county of Providence and State of Rhode Island, a citizen of the United States, have invented certain new and useful Improvements in Catamenial Appliances, of which the following is a specification.

The purpose of my invention is to provide a simply constructed catamenial bandage which is readily adjusted to the person of the wearer, which automatically adjusts itself to the movements of the wearer and which, by reason of its construction, cannot chafe or cut.

Another object of my invention is to increase the convenience and efficiency of devices of this character by providing for the entrance of air inside the bandage to secure coolness to the wearer.

My invention consists in the novel construction and combination of the several parts of my device, as will be hereinafter more fully set forth.

In the accompanying drawings like characters of reference indicate like parts in all figures.

Figure 1 shows my device in a comparatively operative position, with a convenient absorbent attached thereto. Fig. 2 shows a plan view of the interior side of one form of my invention. Fig. 3 is a cross section on the line Y Y of Fig. 2 to show the construction. Fig. 4 is also a cross section of Fig. 2 on the line X X. Fig. 5 is a cross section on the line Z Z of Fig. 1, showing the absorbent in place.

The body, 1, is made of any soft impervious material, preferably that kind of soft and thin sheet rubber known as velvet rubber and is made with a considerable degree of fullness. This bandage may be made of any required length and width but is preferably considerably wider in the front than in the back and tapers gradually toward the rear. The front edge is reinforced by a hem, 3, of some elastic material, preferably flat webbing, and is provided at each extremity with a catch, 8—8′, engaging with the elastic straps, 7—7′, permanently attached to or in prolongation of a hem or reinforcement, 12, at the rear end of the device. These straps are intended to pass around the waist of the wearer forming an elastic belt to support the device.

The edges, 2—2′, of the device as far as the points 10—10′, which distance is approximately two-thirds the length of the bandage, are formed by drawing the edges of the body, 1, around and over a soft hollow elastic tubing, preferably gum rubber, forming a soft, yielding and elastic cushion at the points where these edges touch the body. These round edges are soft and by fitting snugly against the wearer's body form a moisture proof joint and greatly increase the comfort of the wearer and the efficiency of the device. The ends of the tubes are more advantageously sealed air tight, making the cushion pneumatic, but the efficiency is not impaired if these ends are not sealed.

The edges, 6—6′, from points 10—10′ to the rear hem or reinforcement, 12, to which they are attached, are formed by drawing the edges of the body, 1, over flat comparatively wide tapes or cords, preferably elastic webbing. The points 10—10′ where the cushioned edges end, being approximately two-thirds of the rearward extension of the device, are so placed that the round edges tend to hold the flat edges of the device slightly away from the person of the wearer for a short portion of the last third of its length, allowing the entrance of air inside the bandage, which is highly desirable.

At any convenient points transverse strips or bands of flat elastic webbing, 9—11, cross from one edge to the other, being carried around each edge and fastened; these strips being free from the body, 1, may be used for holding any convenient absorbent, 16, flat and smooth inside the body or container. At the points 13, 14 and 15 flat patches of non-elastic material are secured to the edge or surface of the body, 1, and carry a safety pin or other convenient fastening adapted to holding the absorbent firmly and smoothly on the interior surface of the device, without allowing said pin or other fastening to touch the body of the wearer.

A great advantage of this bandage lies in the smooth cushioned edges, 2—2′, which yield to the movements of the body and avoid friction or other discomfort at the same time promoting the efficiency of the device. These are held in constant contact with the body of the wearer by reason of the tapering of the bandage from the front hem, 3, to the points 10—10′, where these round cushions cease. The body, 1, being firmly attached at its front and rear hem to the

belt straps is prevented from losing its normal shape and is held in a comparatively flat and efficient form. The flat hems, 6—6′, being joined at the proper point hold the rear third of the device slightly away from the person of the wearer, giving a chance for a circulation of air without impairment of efficiency, thus making the device cool and comfortable.

The whole device may be easily removed for changing the absorbent, and being made of impervious material can be readily washed and kept in a perfectly clean and sanitary condition.

I claim:

1. A catamenial appliance having a body of soft, pliable material, round tubular edges attached longitudinally to the sides of the forward portion of said body; flat elastic edges attached longitudinally to the sides of the rearward portion of said body, joined in prolongation to said round, tubular edges, transverse elastic strips connecting said round longitudinal edges and said flat longitudinal edges, free from the body; means for holding interior fasteners on said band; flat elastic lateral edges at each end of said band, one exceeding the other in length and means for connecting corresponding ends of said front and rear lateral edges to form a belt.

2. A catamenial appliance formed of a band of pliable material, the front portion of said band extending outwardly from the intermediate line of said band; round tubular cushions on said outwardly extending forward edges; flat elastic edges attached laterally to the rearward portion of said body in prolongation of said outwardly extending forward edges; transverse elastic strips connecting said outwardly curved longitudinal edges and said flat longitudinal edges, said transverse strips being free from said band; means on the interior of said band to hold fastenings interior to said band; flat elastic lateral edges at each end of said band, said front lateral edge greatly exceeding said rearward lateral edge in length, and means for connecting corresponding ends of said front and rear elastic lateral edges to form a belt.

3. A catamenial appliance having a body of soft, pliable material; round cushioned edges attached longitudinally to said body; flat elastic edges attached longitudinally to said body in rearward prolongation of said round cushioned edges; transverse elastic strips connecting said round longitudinal edges and said flat longitudinal edges free from the body; inserts on the interior of said band carrying fasteners; flat elastic lateral edges at each end of said band, one greatly exceeding the other in length, and means for connecting corresponding ends of said lateral edges to form a belt.

In witness whereof I have hereunto subscribed my name this ninth day of February, A. D. 1914.

JOHN B. DES ROSIERS.

Witnesses:
LORIN M. COOK,
MAURICE H. COOK.