BELT FOR THE RELIEF OF HEMORRHOIDS

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Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

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My invention relates to medicinal belts, and one of its objects is to protect hemorrhoids from pressure and friction and thereby to relieve the patient of pains and to avoid irritations which retard the cure of the hemorrhoids.

Other objects are to secure a spread position of the patient's buttocks where the same are near the anus and tend to press on the hemorrhoids, and to secure appropriate spreading means on the body of the patient by a device which does not cause appreciable inconvenience and which does not interfere with his movability.

Further objects are to facilitate the washing of those parts of the belt which may come in contact with the anus or the buttocks, to adapt these parts for the attachment of a removable protective strip of linen or other suitable material, and thereby to keep the belt in clean and sanitary condition.

Still other objects are to attain these results with a belt that can be made inexpensively, that is durable and that is sufficiently strong to enforce the spreading of the buttocks.

Still other objects and advantages will appear from the following description of an exemplifying embodiment of my invention, from the appended claims and from the accompanying drawing in which:

Fig. 1 shows a plan front view of the main part of an illustrative embodiment of my invention in spread and flattened position.

Fig. 2 shows a front view of a cushioning part to be affixed to the main part shown in Fig. 1 as will be described.

Fig. 3 shows a front view of the same embodiment in assembled condition and about in that position in which it is worn, the body of the wearer being omitted.

Fig. 4 shows a side view of the same embodiment in the same position as in Fig. 3.

Fig. 5 shows a cross-section of a modification of the part shown in Fig. 2, the front view of this modification being identical to Fig. 2, the cross-section Fig. 5 being taken along a central vertical line corresponding to the line 5—5 in Fig. 2.

Referring to Figs. 1 to 4, numeral 1 indicates a band adapted to be worn about the abdomen of a person. This abdominal band is preferably made of one broad strip or tape of which the ends overlap at the center of the band's rear side. These overlapping ends meet in obliquely and symmetrically crossing directions declining from both sides whereby the band has its lowest point at the center of its rear side. In this position the overlapping ends are united, for example, in usual manner by stitches.

The circumferential width of the band 1 may be adjustable in any suitable manner. For example, narrow tapes or strips 2 may have ends 3 stitched to the band 1 near its upper rim and may be arranged in pairs. The drawing shows two pairs of tapes 3, one at the left and one at the right side of the band 1. Figs. 3 and 4 show the tapes 3 in free hanging condition. When, however, it is desired to tighten the band 1, this may be done by binding each pair of tapes 3 into a loop or knot of a length shorter than the original distance of the ends 3 of the pair.

A strip 4 forms a downward extension of the rear of the band 1 and has an upper and secured by stitches between the overlapping ends of this band. In the position of use shown in Figs. 3 and 4, the strip 4 is positioned centrally between the buttocks of the wearer. The inter-buttock strip 4 is held in this position by the abdomen band 1 at one side and by two thigh bands at the other side.

Each of these thigh bands may comprise two parts 5 and 6 which have ends affixed to the lower end of the strip 4. In the position of use, the band parts 5 and 6 extend to the front, surround the upper parts of the wearer's thighs and are connected into rings fitting the thighs. For example, each band 5 is provided with eyelets 7 of snap-fasteners which in addition comprise snap-buttons 8 correspondingly affixed to the co-ordinated band 6 at that side which is invisible in Fig. 1. The lengths of the band parts 5 and 6 are so dimensioned that the overlapping ends provided with the snap fasteners are positioned at the outer sides of the thighs where they can be conveniently buttoned and unbuttoned.

The bands 1, 5 and 6 and the strip 4 are made of strong and stretchable material, preferably of knitted fabric, and are permanently united.

A resilient cushion is affixed to the inner side of the strip 4 which side faces the buttocks and the anus of the wearer. This cushion may comprise two separably connected parts or layers. An outer layer 9 is immediately affixed to the strip 4. An inner layer 11 has a leather cover 12. The remaining part of the layer 11 and the layer 9 are preferably made of sponge rubber. The layers 9 and 11 are separately connected in any suitable manner, for example, by snap-fasteners 13.

The inner layer 11 has a relatively narrow, elongated bulge 14 extending in a vertical plane substantially centrally with respect to the cushion and to the buttocks of the wearer. This bulge extends upward a little beyond the underlying parts of the cushion. The leather cover 12
extends still farther upward and is provided with two incisions or slots which extend in horizontally crossing direction a little over the bulge 15. Thereby a strip is formed which may be lifted as shown exaggeratedly in Fig. 4.

A protective strip 17 is drawn through the slots 15 and is held by the strip 16 in a position where the strip 17 covers the inner or body-facing side of the bulge and of the adjacent parts of the cushion. The strip 17 is preferably made of linen cloth and can be easily withdrawn for being washed or replaced. In addition, the cushion layer 11 may be detached for cleaning by opening the snap fasteners.

The embodiment described may be modified by substituting a cushion 18 as shown in Figs. 5 for the cushion formed by the parts 9, 11, 12, and 14. The cushion 18 is one piece made of sponge rubber and comprises a part shaped like the combined layers 9 and 11, a part shaped like the upward extension of the cover 12, a bulge 24 shaped like the bulge 14 and a strip 26 cut out of the part 22 by incisions similar to the slots 15.

The linen strip 17 may be attached to the cushion 18 in the same manner as to cover 12. The outer or under side of the cushion 18 may be detachably connected to the inter-buttock strip 4, for example, by snap fasteners which comprise eyelets 23 secured to the cushion 18 and snap-buttons correspondingly secured to the strip 4. The eyelets 23 and the corresponding buttons may be distributed in the same manner as the snap fasteners. After detachment from the strip 4, the cushion 18 can be easily and thoroughly washed.

I desire it understood that my invention is not confined to the particular embodiment shown and described, the same being merely illustrative, and that my invention may be carried out in other ways within the scope of the appended claims without departing from the spirit of my invention as it is obvious that the particular embodiment shown and described is only one of the many that may be employed to attain the objects of my invention.

Having described the nature of my invention, what I claim and desire to protect by Letters Patent is:

1. A belt for the relief of hemorrhoids, comprising an abdominal band, an inter-buttock strip affixed to the rear side of said abdominal band and therefrom extending downward, thigh bands affixed to the lower end of said strip, and a cushion affixed to the inner side of said strip and extending along a line adapted to face the anus of the wearer, said cushion having a slotted inner cover-layer whereby said cushion is adapted for the easily removable attachment of a protective strip.

2. A belt for the relief of hemorrhoids, comprising an abdominal band, an inter-buttock strip affixed to the rear side of said abdominal band and therefrom extending downward, thigh bands affixed to the lower end of said strip, and a cushion affixed to the inner side of said strip and extending along a line adapted to face the anus of the wearer, said cushion comprising two separably connected layers, one of said layers being affixed to said strip, the other layer forming the inner side of the cushion and having a narrow elongated bulge adapted to be positioned centrally between the buttocks of the wearer.

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