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H. C. PALM

2,028,947

LEG PROTECTING DEVICE

Filed July 18, 1932

Fig. 1.

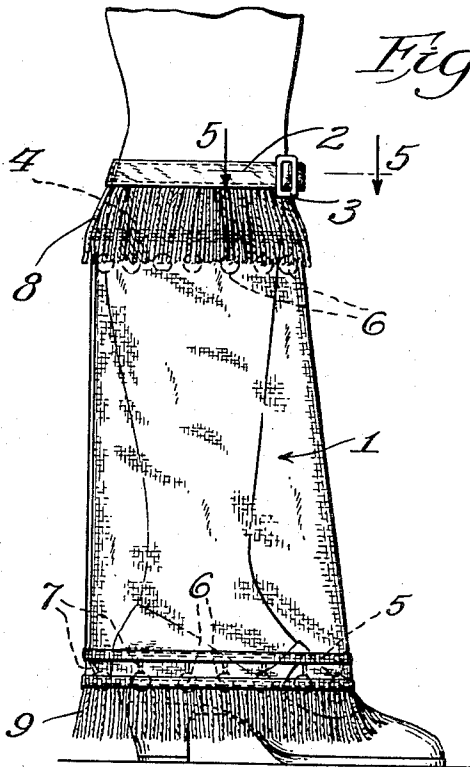


Fig. 2.

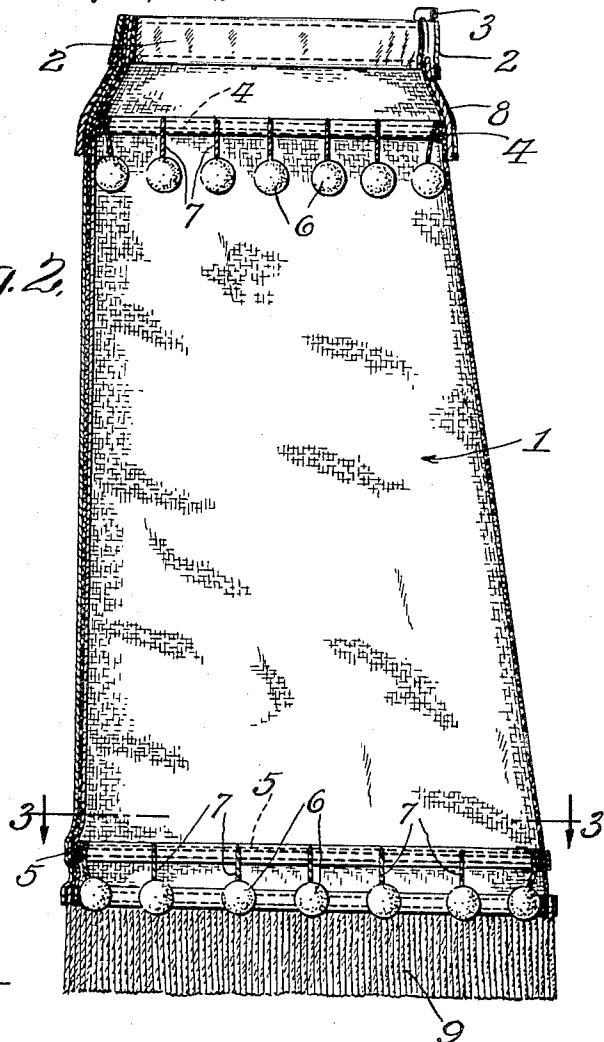


Fig. 4.

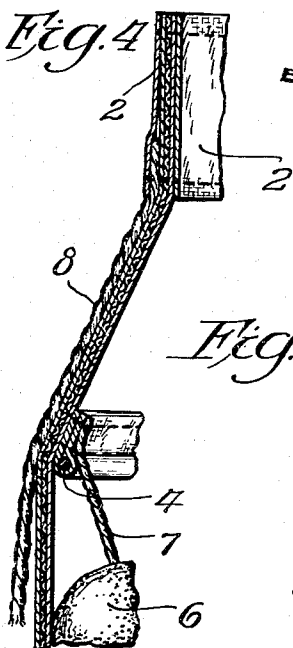


Fig. 5.



Fig. 6.

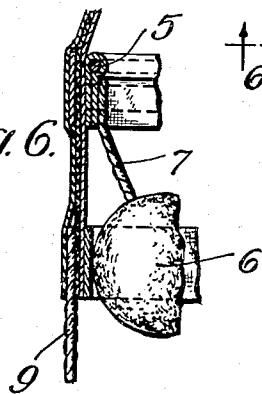
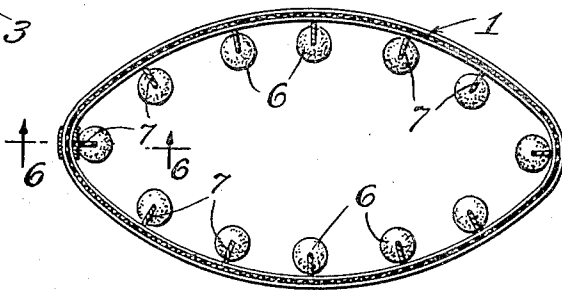


Fig. 3.



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UNITED STATES PATENT OFFICE

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LEG PROTECTING DEVICE

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4 Claims. (Cl. 36—2)

This invention relates to leg protecting devices and has for its object to provide a new and improved device of this description.

The device is adapted to be worn on all occasions and also to protect the legs from bites of mosquitoes, flies, spiders and other insects, and from the sting of bees, yellow jackets and the like, and from the bites of reptiles of various kinds. With the present wearing apparel, when women go out to the beach or other places where there are mosquitoes and flies, these mosquitoes and flies become unbearable and the women cannot remain. Furthermore, when the mosquitoes or flies bite the legs, in addition to the discomfort, blood spots are formed on the stockings.

One of the objects of the present invention is to provide means of doing away with all such objectionable features and permitting women to remain with comfort in such places. The invention has further objects which are more particularly pointed out in the accompanying description.

Referring now to the drawing, Fig. 1 shows one form of device embodying the invention in position on the leg;

Fig. 2 shows an enlarged view of the device separate from the leg;

Fig. 3 is a sectional view taken on line 3—3 of Fig. 2;

Fig. 4 is an enlarged sectional view of the rear upper back portion of the device;

Fig. 5 is an enlarged sectional view taken on line 5—5 of Fig. 1;

Fig. 6 is an enlarged sectional view taken on line 6—6 of Fig. 3.

Like numerals refer to like parts throughout the several figures.

Referring now to the drawing, I have shown a protecting device consisting of a body portion made of suitable material and which encircles the leg. This body portion may be of transparent material in the form of netting, or of any other suitable material. At the top the device is made adjustable so that it may be adjusted to suit the size of the leg of the person using it.

In the construction shown I provide at the top a band 2 with a buckle 3 arranged to tighten or loosen the band as desired. Located at the top and bottom and connected with the body portion are the springs 4 and 5 which are preferably spring wires with a suitable covering. These springs are formed in oval shape so that the device will be of an oval shape, more or less pointed at the front.

On the inside of the device I provide means for holding it away from the leg. In the construction shown this means, in addition to the springs 4 and 5, consists of a series of balls 6, one set being arranged at the top and the other at the bottom. These balls, being on the inside, come in contact with the leg and the foot or ankle at the bottom and insure the holding of the body portion 1 out away from the leg and prevent the spring from contacting with the leg. These balls may be fastened in position in any desired manner, and I prefer to attach them to the springs 4 by flexible attaching pieces 7. These balls may be made of soft or cushioning material and thereby form movable cushions which will not chafe or otherwise irritate the skin of the leg.

I prefer to provide the device, both at the top and the bottom, with fringes 8 and 9. The fringe 9 at the bottom, having the series of cords, acts also to increase the protective feature of the device. The device is made larger at the bottom than at the top so that it will fit over the top of the shoe to be sure to enclose all of the stocking, and thus protect all of the vulnerable points.

By using the springs at the top and bottom and by making the device oval shape so that it is more or less pointed at the front, I am enabled to secure sufficient space between the material of the body portion and the leg to insure proper protection, and at the same time form the device so that it does not interfere with walking, and the devices on the two legs will not rub against each other, and also so that the wind does not flatten them when walking.

Any suitable decorative features may be added as desired. Ordinarily the body portion 1 will be transparent, but if desired, as where there are very coarse veins or other defects which it is desired to hide, the body portion may be camouflaged or made so that the leg does not show through it. It will be seen that these protective devices, unlike trousers or pajamas, will not work up on the leg but will remain in the protecting position at all times, either when the use is standing, walking or sitting.

It is of course evident that any suitable adjusting means may be utilized at the top, and I have shown an ordinary buckle 3 for this purpose, the detailed construction of which is illustrated in Fig. 5. This is simply an ordinary tightening buckle which permits the band to be tightened around the leg sufficiently to hold the device in position.

I have shown in Fig. 4 the particular details of the construction of the upper edge of the device

and I have shown in Fig. 6 the particular details of the lower edge. It is of course evident that these particular details may be varied in many particulars without departing from the spirit of the invention as embodied in the claims hereto
5 appended.

The device may be used with or without the usual stockings. These devices can be put on and taken off easily and quickly, and when not
10 in use occupy a very small amount of space. When transparent mesh material is used air and sunlight can easily reach the legs.

It will be seen that I have here a protection against the bites of insects and the like which
15 is easily applied and which can be made up at low cost and which is effective in preventing the discomfort of the user.

I claim:

1. A leg protecting device comprising a body
20 portion, encircling spring members at the ends of said body portion, and a series of separated cushion members on the interior of said body portion which engage the leg at separated points.
2. A leg protecting device comprising a body
25 portion, encircling spring members at the ends

of said body portion, and a series of separated cushion members on the interior of said body portion, said cushion members suspended by flexible connections connecting them in position, said
5 cushion members having swinging connections with said spring members.

3. A leg protecting device comprising a body portion, encircling spring members at the ends of said body portion, and a series of separated
10 cushion members on the interior of said body portion, said cushion members connected with said spring members, said cushion members engaging the leg at separated points.

4. A leg protecting device comprising a body portion, means at the upper and lower ends of
15 said body portion for holding it away from the leg, an adjustable fastening band at the upper end of said body portion and located above the means for holding the body portion away from
the leg, a series of balls located at intervals about
20 the upper means for holding the body portion away from the leg and suspending cords connecting said balls to said means for holding said
body portion away from the leg.

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