Jan. 16, 1934. J. S. PECKER 1,943,741

HOSE INSERT

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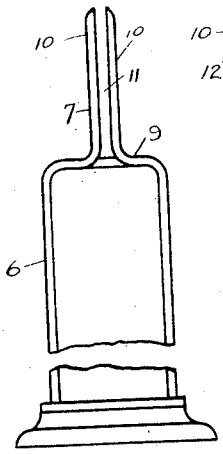


Fig 2

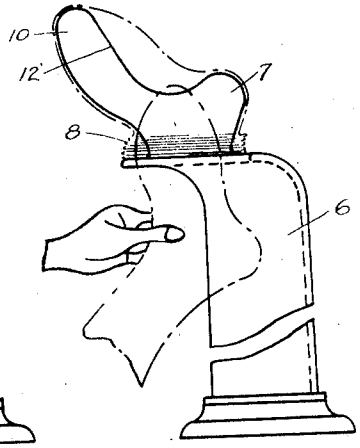


Fig 1

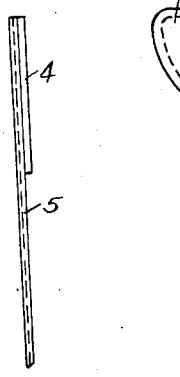


Fig 4

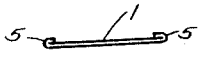


Fig 5

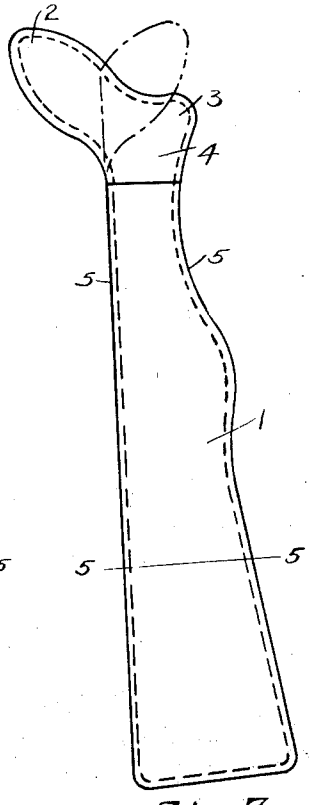


Fig 3

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HOSE INSERT

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2 Claims. (Cl. 223—18.6)

This invention relates to improvements in hose inserts and protectors and mounting means for the hose preliminary to the insertion of the inserts.

An object of this invention is to provide a hose insert which will make it unnecessary for a purchaser of hose to place the hand in the stocking or hose to distinguish the pattern thereof.

Another object of this invention is to provide an insert which will function to materially facilitate the handling of the hose during stamping, inspecting and other operations, as well as materially aid in the folding of the hose before packing in boxes. Furthermore, the insert will aid the hose to retain a stable position in the box so that the merchandise will not crumple.

One of the prime objects of this invention is to provide a means for economically and efficiently inserting the insert within the hose, the portions of the hose such as the toe and heel member being suitably stiffened so that the process of inserting the insert may be carried out without materially crumpling the hose.

Another object of this invention is to provide a hose insert having different portions thereof properly stiffened for easy and efficient insertion within the hose.

Other objects of this invention will be disclosed in the following detailed description and in the single sheet of drawings which is herewith made a part of this application.

In the drawing:—

Figure 1 is a side elevation view of a fixture or mounting for the hose.

Fig. 2 is a front elevation view of Fig. 1.

Fig. 3 is a plan view of a hose insert disclosing a reinforcing element for the toe and heel and a portion of the toe member folded over for packing in a box or otherwise.

Fig. 4 is a side elevation view of a portion of Fig. 3 disclosing particularly a reinforcing member suitably attached to the toe and heel sections of the hose.

Fig. 5 is a sectional view of Fig. 3 taken along line 5—5.

In the hose insert according to this invention and as one modification thereof, it is preferred that numeral 1 designate the main body portion of the hose insert whch may be made of any suitable material such as paper, and reinforced especially at the heel and toe portions 2 and 3 by means of cardboard 4 or any other suitable material such as linen, or stiffened with glue, wax or other chemical substance in order to give the paper insert at the desired portions the necessary rigidity to proper insertion of the insert into the hose, which is accomplished by means of a suitable mounting means hereinafter described.

The main body portion 1 of the hose insert may be folded over along the edges 5 in order that the sharp cutting edge of the insert may be eliminated. Any other suitable means for eliminating this cutting edge may be utilized such as the waxing thereof.

It is preferred in this invention to use the hose insert 1 in combination with a suitable fixture or mounting member 6 which may be made of any suitable material, and preferably formed having an upwardly extending portion 7 properly shaped to receive thereover the heel and toe portions of the hose, to wit, the upper portion of the hose, as clearly shown in Fig. 1, wherein a hose is disclosed in operative position upon the upwardly extending member 7, the leg portion 8 of the hose being crumpled in the position as shown upon the ledge formation 9 of the fixture 6. The upwardly extending portion 7 is provided with spaced forwardly extending arms 10 approximately formed in the shape of the toe members of the hose, the space 11 being adapted to receive therebetween the hose insert when it is desired to position the insert within the hose.

It may be readily observed from the above detailed description that the insertion of a thin sheet of paper into a hose requires considerable care, and by means of this invention it is possible to insert the member within a hose without unnecessary maneuvering. This is accomplished by means of a suitable fixture or mounting, and the reinforcing by cardboard or otherwise of the full shape of the foot or practically so as disclosed. Furthermore, the insertion within the hose tends to give the material a rigidity necessary to the proper and maintained position within a packing case or otherwise.

The insert may be so manipulated as to be inserted in the hose without the necessity of using the fixture in Fig. 1, although the fixture will facilitate the work in mills. The insert with the stiffened or reinforced toe can be made not only in the shape as illustrated on the drawing, but may also be made in any other form; the drawing merely showing the preferred form.

The insert may be manufactured so that the reinforcement does not cover the complete area of the toe and heel as in Fig. 3 but may be reinforced partially or only on the outer edge, as may be desired, and the use of this insert is not confined to hosiery.

Furthermore, the insert may be made by a

combination of methods as for example, stiffening the material at the heel and toe, waxing around the edges, or the insert can be made of a flat sheet of paper waxed throughout, stiffening the sheet sufficiently to facilitate the insertion in the hose but yet being reasonably flexible to permit folding when packing into boxes.

In operation according to this invention it is merely necessary to place the hose or stocking over the mounting as disclosed in Fig. 1 and insert the toe and heel portion within the space 11, and then removing the hose and insert from the mounting by merely pulling upward from the position, as clearly disclosed in Fig. 1, cut out portions 12 being provided in the arms 10, so that a proper hold can be obtained for the purpose of removing the stocking and insert from the mounting 6.

It is understood that the hosiery insert according to this invention may be made of cloth, fabric or paper, or any other material that will aid in distinguishing the pattern or design of the hosiery. However, this application more particularly concerns itself with an insert in which the toe and heel portion is reinforced in order that it may be inserted more readily within the hose in combination with a suitable mounting member.

It is preferred when paper is used as the material for the insert to superimpose cardboard shapes or other stiffening material, or chemically treating the heel and toe portion in order to obtain a semi or permanently rigid character of the insert thereby facilitating the insertion into the hose, it being understood that the insert is used in combination with the mounting member, the paper insert as above described may also be reinforced along the edges by folding or waxing.

What is claimed is:

1. An insert and protector for hose, which insert includes a main member provided by a single piece of thin, flexible, foldable sheet material that provides the leg portion and the foot portion of the insert, and which insert has stiffening means provided at the toe and at the heel of the foot portion thereof for facilitating the initial inserting of the insert in the hose.

2. An insert as defined in and by claim 1 in which the main member is of thin sheet paper and in which the heel and toe portions are reinforced by cardboard.

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