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CLOTHES SPRINKLING DEVICES

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Fig. 2.

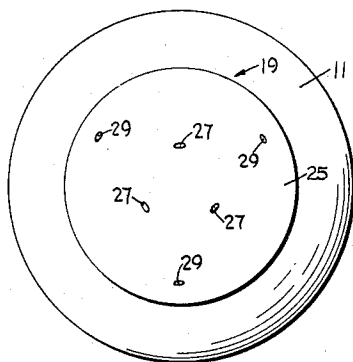


Fig. 1.

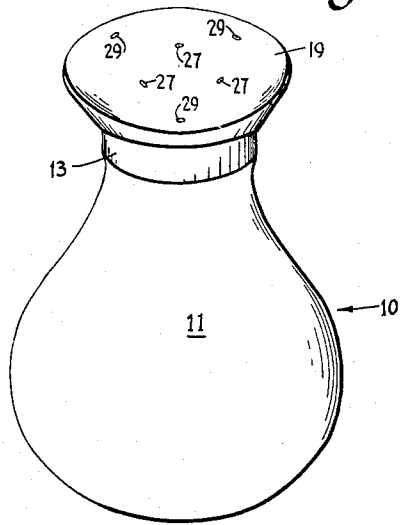


Fig. 3.

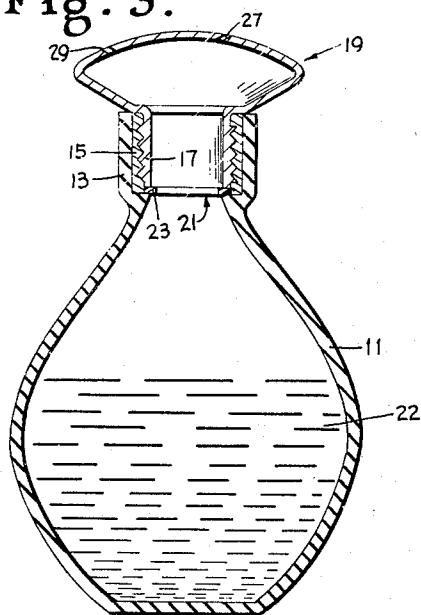
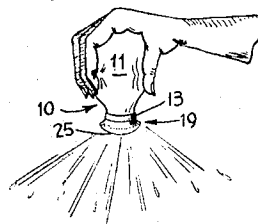


Fig. 4.



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CLOTHES SPRINKLING DEVICES

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4 Claims. (Cl. 299—90)

This invention relates to certain new and useful improvements in devices particularly adapted for conveniently sprinkling clothes for the purpose of dampening same preparatory to ironing or pressing such clothes following laundering thereof.

Many attempts have heretofore been made to produce a satisfactory clothes sprinkling device for handy use in conjunction with the home preparation of clothing for such pressing operation, but such previous efforts to produce a device of this general character have failed to satisfactorily accomplish the purpose. In particular the previous devices have inadequately provided for the proper diffusion of the sprinkling water to be dispensed from the device and have failed to properly limit the quantity of water to be delivered from the device during sprinkling, with the result that such prior sprinkling efforts have accomplished irregular and uneven dampening, producing large dampened, wet spots and wide dry areas adjacent, resulting in an unevenness of processing which is highly undesirable in the finishing of clothes. In addition prior devices have failed to satisfactorily provide for the removable attachment of the sprinkler head to a containing device and frequently have permitted leakage from the container as well as often failing to properly retain the sprinkler head on the container, resulting in the wholesale spillage of the contents when the sprinkler head is accidentally discharged.

The principal object of the present invention is to provide a clothes sprinkling device which will be readily handled by the user and which comprises a compressible bulb for expelling the water or other sprinkling liquid from the container, together with a sprinkler head threadedly engaged with the container.

A further object of the invention is to provide a clothes sprinkling device having a compressible bulb container with a widely flared sprinkler head containing a minimum of apertures through the head, in which the apertures are projected angularly through the material comprising the sprinkler head.

A further object of the invention is to provide in a hand clothes sprinkling device a sprinkler head having apertures widely angled outwardly relative to the substantially dome top of the sprinkler head to accomplish diffusion of the sprinkling liquid; and

A further object of the invention is to generally improve the design, construction and efficiency of means for sprinkling clothes.

The means by which the foregoing and other objects of the invention are accomplished and the manner of their accomplishment will readily be understood from the following specification upon reference to the accompanying drawings, in which:

Fig. 1 is a perspective view of the preferred embodiment of the present invention.

Fig. 2 is a top plan view of the device.

Fig. 3 is a vertical sectional view taken as on the line III—III of Fig. 2.

Fig. 4 is an inverted view, otherwise similar to Fig. 3, and illustrating the device under use conditions.

Referring now to the drawings in which the various parts are indicated by numerals, the container body 10 of the device consists of a compressible bulb portion 11 which is imperforate throughout its sides and bottom and is formed of flexible and resilient material, preferably being formed as of rubber or similar material.

To the upper end of the bulb portion 11 is integrally formed an upwardly open neck portion 13 which is provided with an internally threaded bushing 15. The threaded bushing 15 is adapted to receive and threadedly engage the externally threaded stem 17 of a sprinkler head 19. The sprinkler head 19 is downwardly open as at 21, providing a mouth adapted to communicate into the interior of bulb portion 11 and to receive therefrom liquid contained therein as the water 22.

Preferably a washer 23 is interposed below the lower end of stem 17 and effects a seal in cooperation with the wall of neck 13. The sprinkler head 19 is provided with an overlying substantially circular top 25 which is upwardly arched and is more abruptly turned downwardly adjacent its edges. The dome top 25 merges into a lower portion 26 which merges into the stem 17 and the lower or under section 26 outwardly from the stem engages against the upper end of neck portion 13, providing a positive seat of the sprinkler head in proper assembled position. Preferably top 25 is provided with a radially inner set of apertures 27 and a radially outer set of apertures 29 which are arranged in concentric inner and outer bands and the apertures are disposed equally spaced about the respective bands.

It will be observed that in the preferred embodiment of the device a minimum plurality of apertures is provided, there being shown and preferred no more than three apertures in each of the bands of apertures formed through the dome top 25. As is best shown in Fig. 3, each of the apertures 27, 29 is formed at an extremely flat angle of inclination to the horizontal and to the material of top 25 through which the apertures extend, with the result that each of the apertures 27, 29 is flared outwardly so as to direct in an area of large diffusion.

In the preparation of the device for use, sprinkler head 19 is removed from the bulb portion 11 by unscrewing stem 17 from threaded bushing 15. The interior of bulb portion 11 is supplied with a desired quantity of liquid 22, which customarily is water, and the sprinkler head replaced by reengaging stem 17 with bushing 15, the threading of the stem into engagement with the bushing being continued until the end of the stem engages the washer 23, at which time the outwardly flared under surface 26 of the sprinkler head will engage against the upper edge of neck portion 13.

With the device thus prepared for use, it may be employed for accurately dampening clothes which are to be ironed or pressed. In use the device is inverted and bulb 11 may be compressed, expressing liquid 22 through apertures 27, 29. By virtue of the angularity of the apertures relative to top 25, the expressed liquid is discharged at a flat angle of diffusion, thus eliminating the undesired accumulation of excess moisture in a localized concentration.

In addition, by virtue of the arrangement of the sprinkler head 19 and the manner of its engagement with neck 13, accidental displacement of the head during use of the device is prevented, and leakage and spillage additionally is avoided.

I claim:

1. In a clothes sprinkler device, a hollow compressible bulb-like body formed of resilient imperforate material and having an internally threaded neck, said neck adjacent its junction with said body having an integral por-

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tion below the threads in said neck and projecting inwardly beyond said threads, a sprinkler head comprising a top portion and an under portion connected to and spaced from said top portion, a hollow stem threadedly engaging said neck, the lower end of said stem overlying and being sealed to said integral portion, said stem being attached to said under portion, said sprinkler head widely flaring outwardly with said under portion overlying said neck and seating against said neck when said stem is fully threaded thereinto, said top portion being provided with widely spaced apertures, said apertures being arranged at a substantially flat angle of inclination relative to the plane of said top and being directed substantially radially outwardly, said body being adapted to receive a supply of sprinkling liquid thereinto and being compressible to express such liquid outwardly through said apertures, the angular disposition of said apertures relative to said top widely diffusing expressed liquid to minimize localized moisture concentration.

2. In a clothes sprinkler device, a hollow compressible bulb-like body formed of resilient imperforate material and having a hollow neck, said neck including an integral portion extending inwardly from the wall of said neck adjacent its connection to said body, a sprinkler head comprising spaced apart top and under portions, a hollow stem connected to said under portion and engaging said neck, the lower end of said stem overlying and being sealed to said inwardly projecting portion, said sprinkler head widely flaring outwardly with said under portion overlying said neck and seating against said neck when said stem is fully engaged thereinto, said top portion being provided with widely spaced apertures, said apertures being arranged at a substantially flat angle of inclination relative to the material of said top and being directed substantially radially outwardly, said body being adapted to receive a supply of sprinkling liquid thereinto and being compressible to express such liquid outwardly through said apertures, the angular disposition of said apertures relative to said top widely diffusing expressed liquid to minimize localized moisture concentration.

3. In a clothes sprinkler device, a hollow compressible bulb-like body formed of resilient imperforate material and having an internally threaded neck, said neck adja-

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cent its junction with said body having an integral portion below the threads in said neck and projecting inwardly beyond said threads, a sprinkler head comprising a top portion and an under portion connected to and spaced from said top portion, a hollow stem threadedly engaging said neck, the lower end of said stem overlying and being sealed to said integral portion, said stem being attached to said under portion, said sprinkler head widely flaring outwardly with said under portion overlying said neck and seating against said neck when said stem is fully threaded thereinto, said top portion being provided with spaced apertures, said body being adapted to receive a supply of sprinkling liquid thereinto and being compressible to express said liquid outwardly through said apertures.

4. In a clothes sprinkler device, a hollow compressible bulb-like body formed of resilient imperforate material and having a hollow neck, said neck including an integral portion extending inwardly from the wall of said neck adjacent its connection to said body, a sprinkler head comprising spaced apart top and under portions, a hollow stem connected to said under portion and engaging said neck, the lower end of said stem overlying and being sealed to said inwardly projecting portion, said sprinkler head widely flaring outwardly with said under portion underlying said neck and seating against said neck when said stem is fully engaged thereinto, said top portion being provided with widely spaced apertures, said body being adapted to receive a supply of sprinkling liquid thereinto and being compressible to express said liquid outwardly through said apertures.

References Cited in the file of this patent

UNITED STATES PATENTS

54,819	Moriarty	May 15, 1866
347,405	White et al.	Aug. 17, 1886
387,370	Schlesinger	Aug. 7, 1888
406,005	Shepherd	June 25, 1889
1,222,847	Carpenter et al.	Apr. 17, 1917
1,675,395	Whisler	July 3, 1928
1,823,635	Williams	Sept. 15, 1931
2,026,304	Deady	Dec. 31, 1935