L. M. SCHNEIDER.

APPARATUS FOR WASHING AND CLEANSING.

APPLICATION FILED JULY 5, 1917.

1,300,031.

Patented Apr. 8, 1919.

2 SHEETS—SHEET 1.

Fig. 4.

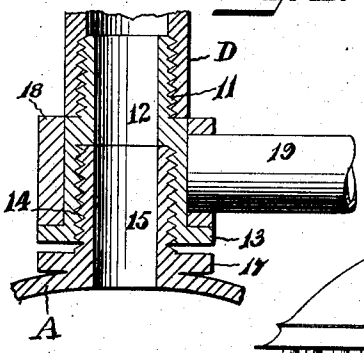


Fig. 1.

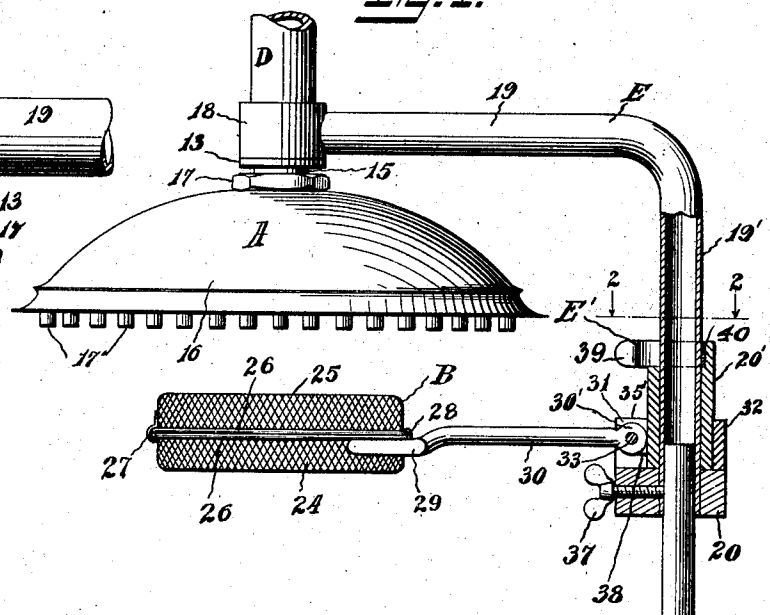


Fig. 5.

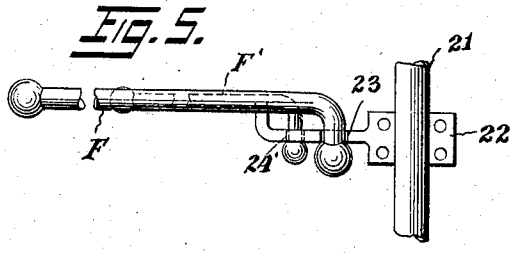
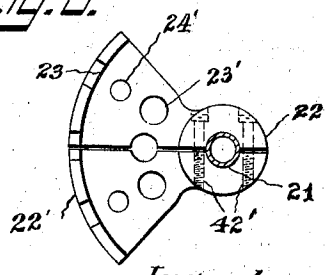


Fig. 6.



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2 SHEETS—SHEET 2.

Fig. 2.

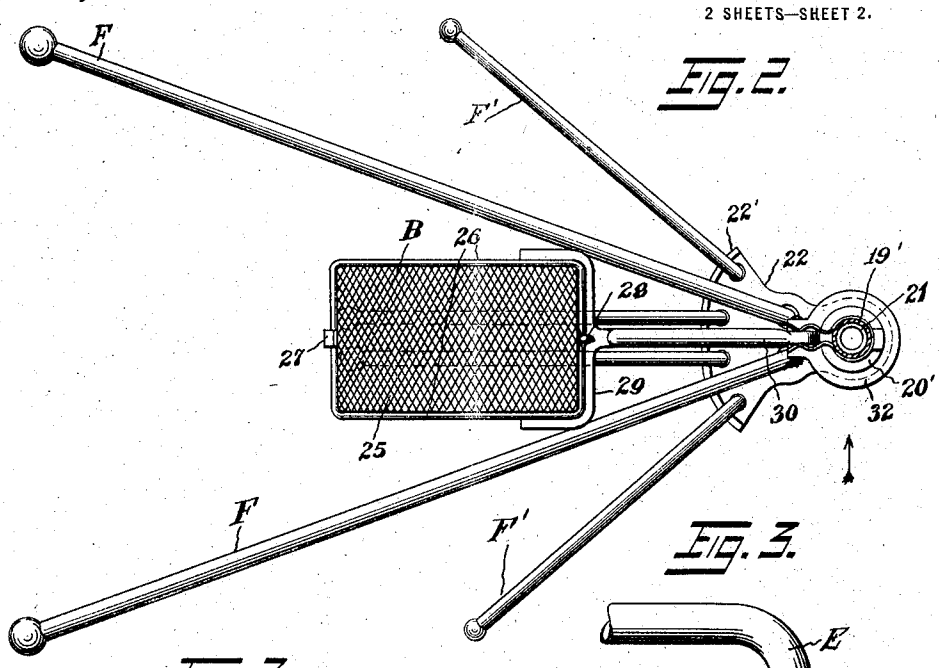


Fig. 3.

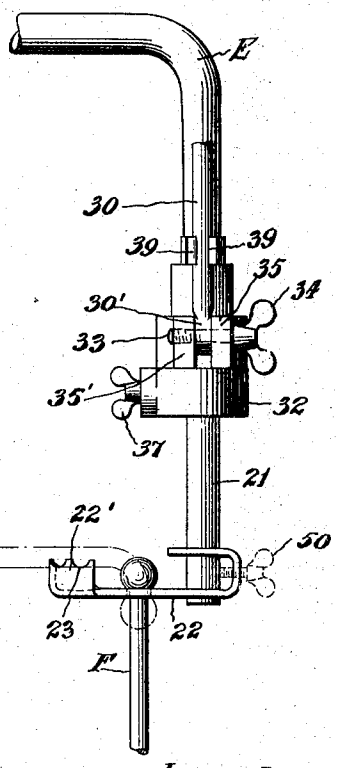
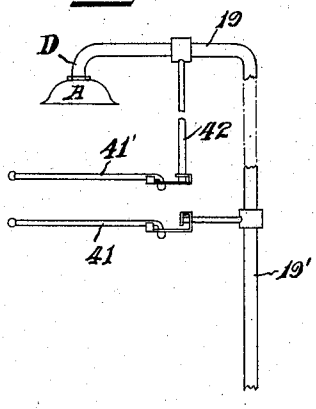


Fig. 7.



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UNITED STATES PATENT OFFICE.

LAURA M. SCHNEIDER, OF NEW YORK, N. Y.

APPARATUS FOR WASHING AND CLEANSING.

1,300,031. Specification of Letters Patent. Patented Apr. 8, 1919.

Application filed July 5, 1917. Serial No. 178,576.

To all whom it may concern:

Be it known that I, LAURA M. SCHNEIDER, a citizen of the United States, residing in New York City, in the county of New York and State of New York, have invented certain new and useful Improvements in Apparatus for Washing and Cleansing, of which the following is a specification.

The objects of my invention or inventions, herein disclosed are to provide a new and improved method of washing and cleansing; and apparatus for carrying such new and improved method into effect; which method and apparatus, may be used for washing and cleansing clothing and various other articles; such as fabrics (or even the person), which apparatus is of simple, cheap and efficient form of construction, and of long life.

My said improved method of washing and cleansing comprises broadly; submitting the objects to be cleansed to a shower-bath of water under pressure; carrying with it dirt dissolving and cleansing material, such as soap, dissolvable soap powders, or even suitable saponaceous or other liquid cleansing chemicals, preferably taken up and held in solution; and one form of apparatus (also of my invention) for carrying my said cleansing method into effect, which I have found highly efficient therefor, is hereinafter shown, described, and claimed in the following specification, of which the accompanying drawings form a part, wherein similar letters or numerals of reference designate like or equivalent parts, wherever found throughout the several views, and in which:

Figure 1 is a side view of my improved washing and cleansing apparatus in elevation, a portion thereof being shown in central vertical section;

Fig. 2 is a top plan view thereof taken in horizontal section on the line 2—2 of Fig. 1, the cleanser receptacle being in the operative position;

Fig. 3 is a side view of a portion of the construction shown in Figs. 1 and 2, looking in the direction of the arrow of Fig. 2, the cleanser-receptacle supporting-rod broken off being shown pivotally swung a quadrant of a circle horizontally, and also vertically upward out of the water-path, and secured in such position as to be inoperative while retained therein; a goods supporting-rod or bar being shown in full lines in inoperative, and in dotted lines in working and supporting operative position;

Fig. 4 is a side view in detail of a portion of the apparatus, taken in central vertical section of Fig. 1, looking from the front of Fig. 1;

Fig. 5 is a side view of one half of a modified form of adjustable and removable support-bracket for the supporting-bars, with such bars in position therein; in position on the support-bar or rod;

Fig. 6 is a top plan view of such two-part support-bracket in position on such vertical support-rod or bar; and

Fig. 7 is a view similar to Fig. 1, of a slightly modified form of construction of the apparatus, from that shown in the preceding figures.

Referring to the drawings:

The reference letter A, designates the delivering water-head of my improved washing and cleansing-apparatus; which is usually in the form of a sprinkler-rose of the ordinary shower-bath form shown; B is the cleanser-holding receptacle and supporting means; C is the support for supporting the articles to be cleansed in position beneath the cleanser-receptacle, the latter being located when in working position between such support and delivery water-head; and D is the combined supporting and water-feed pipe. The outer delivery end of such feed-pipe D, extends downward, and secured to its lower end, usually by a screw-thread 11, is the thimble 12, having the annular outer peripheral supporting-flange 13, and the female-screw-thread 14, to receive the inlet-pipe 15 of the water-head A, such inlet-pipe, water-head, securing-nut 17, and the plurality of water-delivery nozzles 17′, being usually and preferably integrally cast (or otherwise formed) of one piece of metal.

Mounted upon and supported by the flange 13 of the thimble 12, Fig. 4, is the annular supporting-ring 18, in one side of which is secured in a suitable orifice, the end of the upper horizontal portion 19 of the L-shaped hollow supporting pipe E, the lower vertical portion 19′ of which has firmly secured thereto by soldering, brazing, or in any other desired manner, at its lower end, the securing-base-ring 20, having formed integral therewith or secured thereto in any desired manner the upward hollow cylindrical

extension 20′, through which passes the securing wing-screw 37, which adjustably secures the vertical and bracket supporting-rod 21 therein; and to the lower end of 21 is secured in any desired manner, usually by being brazed or soldered thereto, the goods-support-bracket 22; which in the form of device especially designed and adapted for supporting clothing, or other flexible fabrics in depending position beneath the delivery water-head, when rigidly secured to the rod 21, is of the one-part shown in Figs. 1, 2, and 3; (which when desired to be adjustable on the rod 21, is usually of the two-part split form shown in Fig. 6, which parts are secured together by securing-screws 42′, as clearly indicated in Fig. 6), but a single part-bracket may be provided with a set-screw 50 (as shown in dotted lines in Fig. 3), to make the same adjustable, and if desired one or more two-part brackets may be interposed between the support C and cleanser-receptacle B, when desired, and quickly removed and replaced without disturbance of the rigidly secured bracket 22.

As shown herein such goods-support is substantially of the form well known in supports for towels, clothing, etc., in which the supports are in the form of adjustable rods or bars F and F′ of L-shaped form, slidably supported in suitable perforations in the supporting-bracket 22, and provided at the ends with securing enlargements (usually of spheroidal or ball form) of greater diameter than the main-body portions of such supporting-bars, so as to be quickly shifted from the horizontal working and supporting position (dotted lines of Fig. 3), to the vertical and non-working position (full lines), in the support-bracket 22 without complete removal therefrom. The longer rods indicated by F, usually pass through the rear holes 23′, and the smaller diametered and shorter rods F′, through similar holes 24′, struck from centers located on segments of concentric circles, all as clearly indicated in Figs. 2 and 6. And usually and preferably such support-bracket 22 is provided with an upwardly extending segmental outer peripheral flange 22′, having radial securing-slots 23, (Fig. 6) in which the main body portions of such rods or bars F and F′ will rest when in the horizontal working position, so as to prevent horizontal vibration thereof, in such support-bracket 22.

The cleanser-receptacle B shown herein, is designed for containing soap, saponaceous cleansing-powders or other solid dissolvable chemicals, such as sodium carbonate, etc., and as shown comprises a perforate walled casing of any suitable shape, size or contour. In the rectangular form shown, the same comprises, a rectangular dish shaped bottom 24, and a like shaped cover-portion 25, formed of woven wire-netting of small mesh swaged into form, and strengthened at the abutting edges by the rectangular-wires 26; such wires being permanently hinged together at one end by a hinge 27, and secured at the other by a releasable catch 28; so that such receptacle may be easily opened to be refilled.

Secured to such receptacle B so as to horizontally support the same in position beneath the delivery water-head A, (usually by a yoke-head 29 formed integral therewith, soldered or otherwise secured to the receptacle or the bottom edge-wire 26 thereof, (Figs. 1 and 2) is a receptacle supporting-rod 30, having a securing-head 30′, pivotally secured in the securing-slot 31, of the split-securing-ring or collar 32, by means of the combined securing-screw and pivot bolt 33, having the winged thumb-head 34, for both vertical and horizontal adjustment of such split-ring on the extension 20′ of the collar 20, which screw-bolt 33, passes through the flange 35 and head 30′ of the rod 30, and screws into the flange 35′.

The securing-head 30′, is provided with the square ended stop-lug 38, which by abutment against the extension 20′ of 20, stops the downward movement of the rod 30, when it is thrown to the horizontal (Fig. 1); while still permitting of free upward pivotal swinging movement thereof into the position shown in Fig. 3, when pivotally swung in either direction through an arc of ninety degrees, so that the receptacle B, will be moved from between the water-head and support; and when so thrown up into the vertical position shown in Fig. 3 it will be held in such upright and non-working position by the clasping of the rod 30, between the resilient spring retaining holding ends 39, of the securing spring-clamp E′, Fig. 1 held in place at the top of the extension 20′ of 20, being preferably soldered or otherwise firmly secured thereto at 40 of Fig. 1.

In the modified form of construction shown in Fig. 7, the feed-pipe D, is a downwardly curved end portion of the pipe 19—19′, and the bracket support-rod 21 is wholly omitted, the water being delivered through 19 and 19′; and in this construction, the bracket support C may be secured to 19′, (as indicated at 41) or to a pipe 42 secured to the pipe 19, (as indicated at 41′); but these two forms are rarely used at once, and the figure being but diagrammatic, I have not deemed it essential to show the cleanser-receptacle and its connections in position therein, as the construction and operation thereof is precisely the same as in the other prior figures save for the minor and unimportant details set forth.

In operating the device, the clothing, etc., to be washed and cleansed is draped over the rods F and F′ of the support C, and the cleanser receptacle B, having been filled

with soap, soap-powder, etc., is swung into the water-path at the proper height between the water-head A and support C, and the water turned on, and allowed to flow until the goods are thoroughly cleansed; when the cleanser receptacle is swung out of the water-path through an arc of ninety degrees, and vertically upward the same distance, and locked therein by insertion between the resilient spring securing ends 39 of the clamp E′, as clearly indicated in Fig. 3; the rod 30 being broken off and alone shown in such non-working vertical position. The water then continuing to flow from the head A, the goods are thoroughly rinsed by such flow, until the cleanser has been eliminated therefrom; when the cleansed batch of goods is removed; and an uncleansed batch substituted; the cleanser receptacle thrown down and horizontally swung into the water-path; and this operation is repeated indefinitely.

When goods other than fabrics are to be washed and cleansed, by my improved method herein disclosed, other suitable forms of support therefor may be used; and the form and construction of the water-head, and of the cleanser-receptacle, as well as of the other parts; or the manner of combining the several parts making up the entire apparatus may any or all be changed to suit the exigencies required by the particular class of goods to be treated; and I do not intend to limit myself to all the particular steps, nor to the particular sequence thereof; nor to the particular construction, combination and arrangement of the several parts of my improved washing and cleansing apparatus, herein shown, and described, as many modifications thereof may be made therein, without departing from the spirit of my invention or exceeding the scope of the claims.

I claim:

1. A washing and cleansing device comprising a fluid sprinkler, means for supporting the sprinkler, means for supplying fluid to the sprinkler, goods-supporting means located below the sprinkler and in the discharge path thereof, and a perforated cleanser receptacle located intermediate of the sprinkler and the goods-supporting means and movable horizontally and radially in and out of the discharge path of the sprinkler.

2. A washing and cleansing device comprising a fluid sprinkler supported in a horizontal position, means for supplying fluid to the sprinkler, goods-supporting means located in the discharge path of the sprinkler, and a perforated cleanser receptacle located intermediate of the sprinkler and the goods-supporting means and movable in and out of the discharge path of the sprinkler and movable upwardly when out of said discharge path.

3. A washing and cleansing device comprising a fluid sprinkler supported in a horizontal position, means for supplying fluid to the sprinkler, goods-supporting means located in the discharge path of the sprinkler, a perforated cleanser receptacle located intermediate of the sprinkler and the goods-supporting means and movable in and out of the discharge path of the sprinkler and movable upwardly when out of said discharge path, and means for detachably retaining the cleanser receptacle in an upward position.

4. In a device of the character described, a delivery water-head; a goods support located in the water path below the water-head; a receptacle through which the water will pass on its way from the water-head to the goods, adapted to hold cleansing material adapted to be dissolved into solution and carried along with the water to the goods; and a horizontally movable receptacle-support permitting of the swinging of the receptacle into and out of the water-path between the water-head and goods-support.

5. In a device of the character described, a delivery water-head; a goods-support located in the water-path below the water-head; a receptacle through which the water will pass on its way from the water-head to the goods, adapted to hold cleansing material adapted to be dissolved into solution and carried along with the water to the goods; and a horizontally movable receptacle-support permitting of the swinging of the receptacle into and out of the water-path between the water-head and goods-support; and means for vertically swinging the receptacle support when out of the water-path and for locking the same in such vertical position.

6. In a device of the character described, a support for the goods to be treated by the falling water; a spray water-head located above the goods support; a vertical standard between the water-head and goods-support; a foraminous walled receptacle for holding cleansing material dissolvable in the water; a receptacle supporting-sleeve vertically and horizontally adjustable upon the standard between the water-head and goods-support; and a vertically swinging supporting rod connecting the supporting-sleeve with the receptacle.

7. In a device of the character described, a support for the goods to be treated by the falling water; a spray water-head located above the goods support; a vertical standard between the water-head and goods support; a foraminous walled receptacle for holding cleansing material dissolvable in the water; a receptacle supporting-sleeve vertically and horizontally adjustable upon the standard between the water-head and goods-

support; a vertically swinging supporting rod connecting the supporting-sleeve with the receptacle; and means for locking the supporting-rod in vertical position.

8. In a device of the character described; a standard; a water-head supported by the standard delivering water gravitationally to one side of the axial line of the standard; and a fabric support comprising a plurality of rods radially supported by the stand extending therefrom underneath the water-head.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."