Oct. 14, 1930. B. D. GOLDBERG 1,778,489

NAPPY CLOTH RESTORER

Filed May 14, 1929 2 Sheets-Sheet 1

Fig. 1.

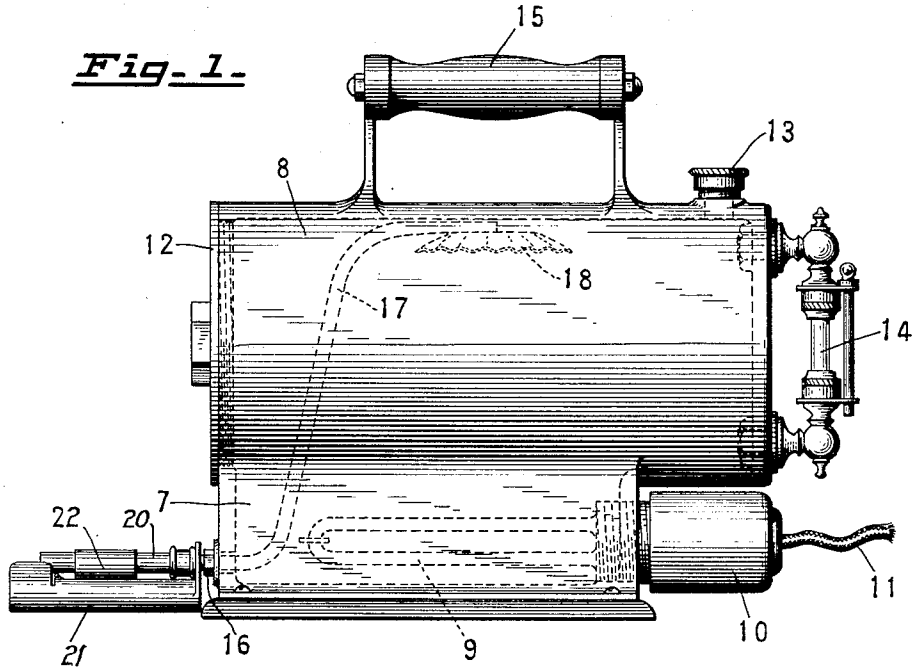
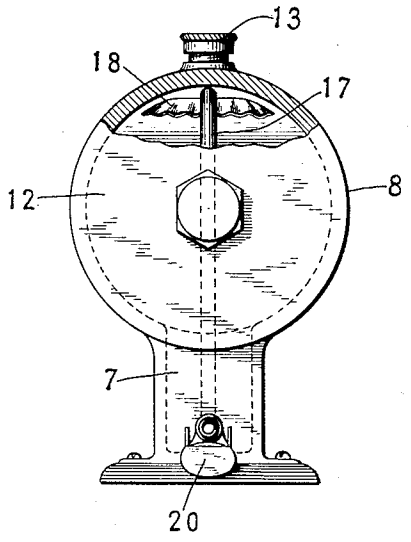


Fig. 2.



INVENTOR
Benjamin D. Goldberg,
BY
ATTORNEY

Oct. 14, 1930. B. D. GOLDBERG 1,778,489

NAPPY CLOTH RESTORER

Filed May 14, 1929 2 Sheets-Sheet 2

Fig. 3.

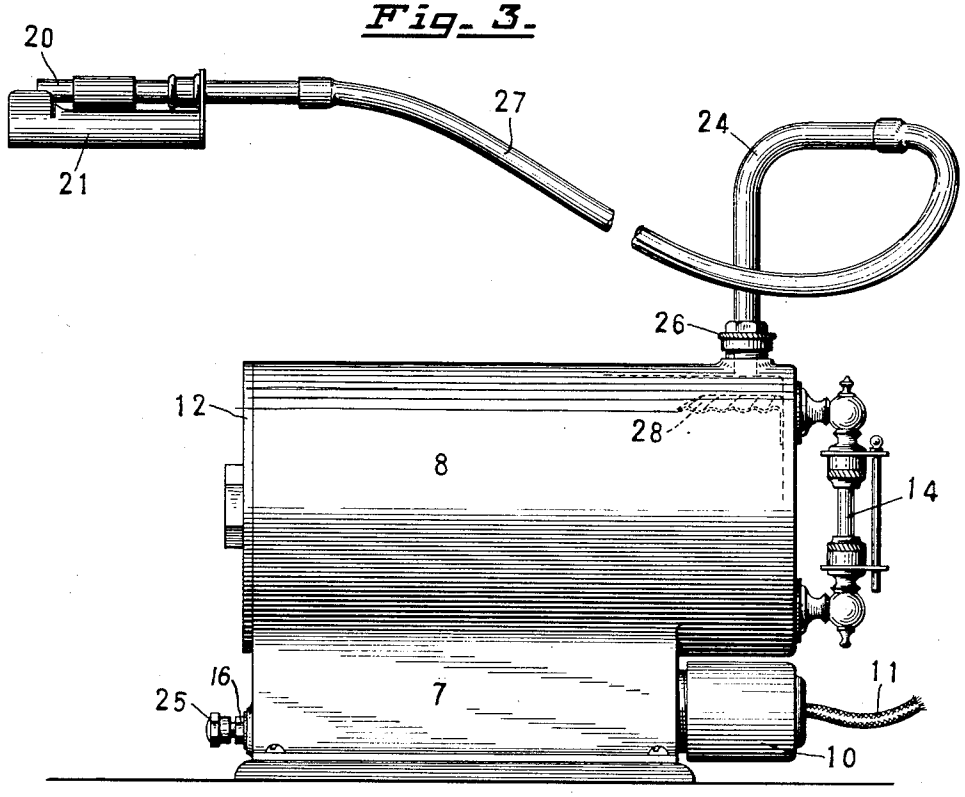


Fig. 4.

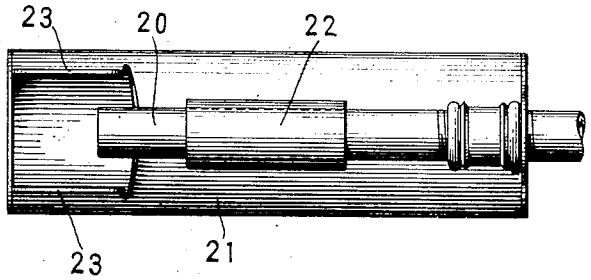
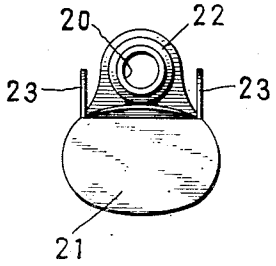


Fig. 5.



INVENTOR
Benjamin D. Goldberg,
BY
ATTORNEY

Patented Oct. 14, 1930 1,778,489

UNITED STATES PATENT OFFICE

BENJAMIN D. GOLDBERG, OF NEW YORK, N. Y.

NAPPY-CLOTH RESTORER

Application filed May 14, 1929. Serial No. 363,071.

My invention relates generally to apparatus for steaming cloth and particularly for refreshing nappy materials, such as plush, velour, camel's hair and the like by steam. Such material quite readily becomes wrinkled, marred and out of shape from use or other causes and needs to be refinished or refreshed, which at the present time is usually done by steaming the material. At the present time, tailors, decorators and householders have considerable difficulty with such steaming. Ordinarily when such material is in the form of furniture or hangings, this steaming is done at the shop or warehouse which necessitates carrying such articles to and from such point with consequent expense and delay. Very often when the treated material is returned to the user, it is found to be creased or wrinkled due to careless handling on the return trip so that it is again necessary to return the article to the shop to resteam it and so forth. Also under the conditions now prevailing it is necessary to bring such heavy articles to the steaming device often from distant parts in the factory or warehouse, which, due to the difficulty in doing so, is attended with great expense and delay.

My present invention has for its main object the provision of a simple and comparatively inexpensive portable apparatus by means of which such materials can be readily steamed at home without requiring factory or shop treatment and its consequent expense and delay.

Another object is to provide an apparatus of this character which can be readily operated by an unskilled operator.

Still another object is to provide such a steamer with means for readily reaching all parts of the garment or article regardless of its shape or position.

I accordingly provide a small steam generator which can be readily heated electrically. This generator is provided with a nozzle by means of which dry steam may be applied without the danger of injuring the furniture or material by condensed steam.

This generator being readily portable, it is possible to treat the furniture or drapery and hangings without moving them from their usual positions.

Fig. 1 is a side view of apparatus embodying one form of my invention.

Fig. 2 is an end view and partial vertical section of the same.

Fig. 3 is a side view showing a modified form of leader or outlet.

Fig. 4 is a detailed plan view of the discharge nozzle and drip pan.

Fig. 5 is an end view of the same.

The main body of reservoir is preferably formed in one piece having a heater chamber 7 and a steam chamber 8, the latter being of much greater volume than the heater chamber. The heater chamber is of a size sufficient to retain just enough water to keep the electrical heater member 9 covered at all times and to conserve the heat. The heater member 9 preferably has a handle portion 10 to which the cable 11 is connected.

This handle may also be provided with automatic thermostatic cut out means as is sometimes employed in electric heating devices.

The upper part of the reservoir is preferably of much greater capacity than the heater part so as to provide a substantial volume of water and also furnish sufficient steam space in the top. I have found it desirable to have this upper part about seven or eight times the capacity of the heater chamber. One end of the water and steam chamber 8 is preferably provided with a removable cover or cap 12 to permit access to the interior. The reservoir also preferably has an inlet with a detachable cap 13 through which the reservoir can be filled.

I also preferably provide a water gage 14 at one end of the reservoir to indicate the water level in the reservoir.

The apparatus is also preferably provided with a suitable form of handle 15 for convenience in transportation.

Preferably the steam outlet 16 is located near the bottom and provided with a pipe 17 having an interior conduit which extends inwardly and upwardly into the reservoir with its inlet as near the top of the steam space as possible. To prevent the water

from splashing into the steam outlet I preferably provide a shield 18 beneath the upper end of the pipe 17. In this way very little water is likely to pass into the pipe 17.

The outlet nozzle 20 is preferably screw threaded so that it may be readily attached on to the outlet 16.

The drip pan 21 is mounted beneath the outlet nozzle 20, being secured in place preferably by a sleeve 22 which is secured to the pan and is slidable on the nozzle. This pan is preferably mounted rotatably on the sleeve and is provided with an open top so that upon rotation thereof the contents of the pan are readily emptied but it may be detachable or fixed.

The outer end of the pan is preferably provided with flanges 23 to prevent condensed steam from splashing sidewise from the outer end of the nozzle.

The nozzle 20 may be unscrewed from the nipple 16 and replaced by cap 25 as shown in Fig. 3. In this case the cap 13 is removed and replaced with a coupling 26 for securing an upright rigid pipe 24 to which is joined a flexible leader or pipe 27, to the outer end of which the nozzle 20 and drip pan 21 can be attached. Such an arrangement is desirable where it is necessary to have greater mobility of the nozzle. Such an arrangement also makes it possible to use a larger water and steam reservoir as the flexible leader eliminates the necessity of continually moving the reservoir.

Shield 28 is located beneath the inlet to serve as a deflector for the bubbles arising from the water when it boils to prevent any water being carried out by the steam when the leader 27 is connected as in Fig. 3. The shield 18 serves to prevent bubbles or splashing water from entering the pipe 17 in Figs. 1 and 2.

It will be seen that the invention makes it convenient and possible for the upholsterer or decorator to go into the house and freshen up the drapery, hangings and furniture with a minimum of difficulty and expense and with a minimum of disturbance.

This also makes it possible to treat furnishings readily even in localities where there is no supply of gas for furnishing the necessary steam.

By the construction and arrangement herein shown it is possible to heat the maximum amount of water with a minimum of current and the operator is assured that the steam will be supplied without moisture and without dripping either on the floor or on the furniture or drapery.

By making the apparatus quite small and compact it is readily portable so that it can be placed anywhere and in fact the entire apparatus can be operated with one hand leaving the other hand free for handling drapery, clothing and so forth.

Although I have shown the preferred form and arrangement, it will be understood that the various details may be modified without departing from the spirit or scope of my invention.

I claim:

1. A steam generator comprising a water reservoir, a heater chamber below said reservoir and opening directly thereinto, said chamber formed with a steam outlet adjacent its bottom, a nozzle connected thereto, an electric heater in said chamber, and an interior conduit leading from said outlet to a point adjacent the top of the reservoir.

2. In a steam generator, a leader for conducting the steam and a nozzle on the outer end thereof, a drip pan mounted rotatably and slidably on said nozzle including an opened upper portion and a pair of oppositely disposed flanges formed at one end of the pan and extending upwardly from said opened upper portion.

3. A drip pan for a steam generator nozzle comprising a body portion having an open top and a pair of oppositely disposed flanges positioned at one end of said body portion and extending upwardly from said open top portion.

4. A cloth steaming device having a water boiler with a steam outlet, a nozzle on the steam outlet and a trap, the trap being held adjacent to and relative to the nozzle opening so as to catch the condensed steam.

5. A cloth steaming device having a water boiler with a steam outlet, a nozzle on the steam outlet and a trap, means for rotatably supporting the trap adjacent to and relative to the nozzle opening so as to catch the condensed steam.

6. A portable steam generator comprising a water boiler, a steam outlet for the boiler and having an opening from the interior of the boiler and a shield adjacent the opening and having its major portion of its periphery spaced from the walls of the generator to protect the opening from direct entry of water thereinto.

7. A portable steam generator comprising a water reservoir, an interior conduit having an opening from the interior of the boiler and extending from a point adjacent the top of the reservoir and passing through a wall of the lower portion of the reservoir and a shield adjacent the opening and having its major portion of its periphery spaced from the walls of the generator to protect the opening from direct entry of water thereinto.

8. A steam generator comprising a water boiler having an outlet, a heater for the boiler, a conduit starting at the top inside of the boiler and passing through a wall of the boiler, a nozzle at the end of the conduit and means held in place under the nozzle for trapping the condensed steam.

9. A cloth steaming device comprising a

steam generator, a nozzle connected to the generator for delivering the steam to the cloth and a trap means beneath the nozzle to receive the condensation therefrom.

10. A portable cloth steaming device of a size to be carried in the hand, comprising a steam generator, a nozzle connected to the generator for delivering the steam to the cloth and a trap means beneath the nozzle to receive condensation therefrom.

BENJAMIN D. GOLDBERG.