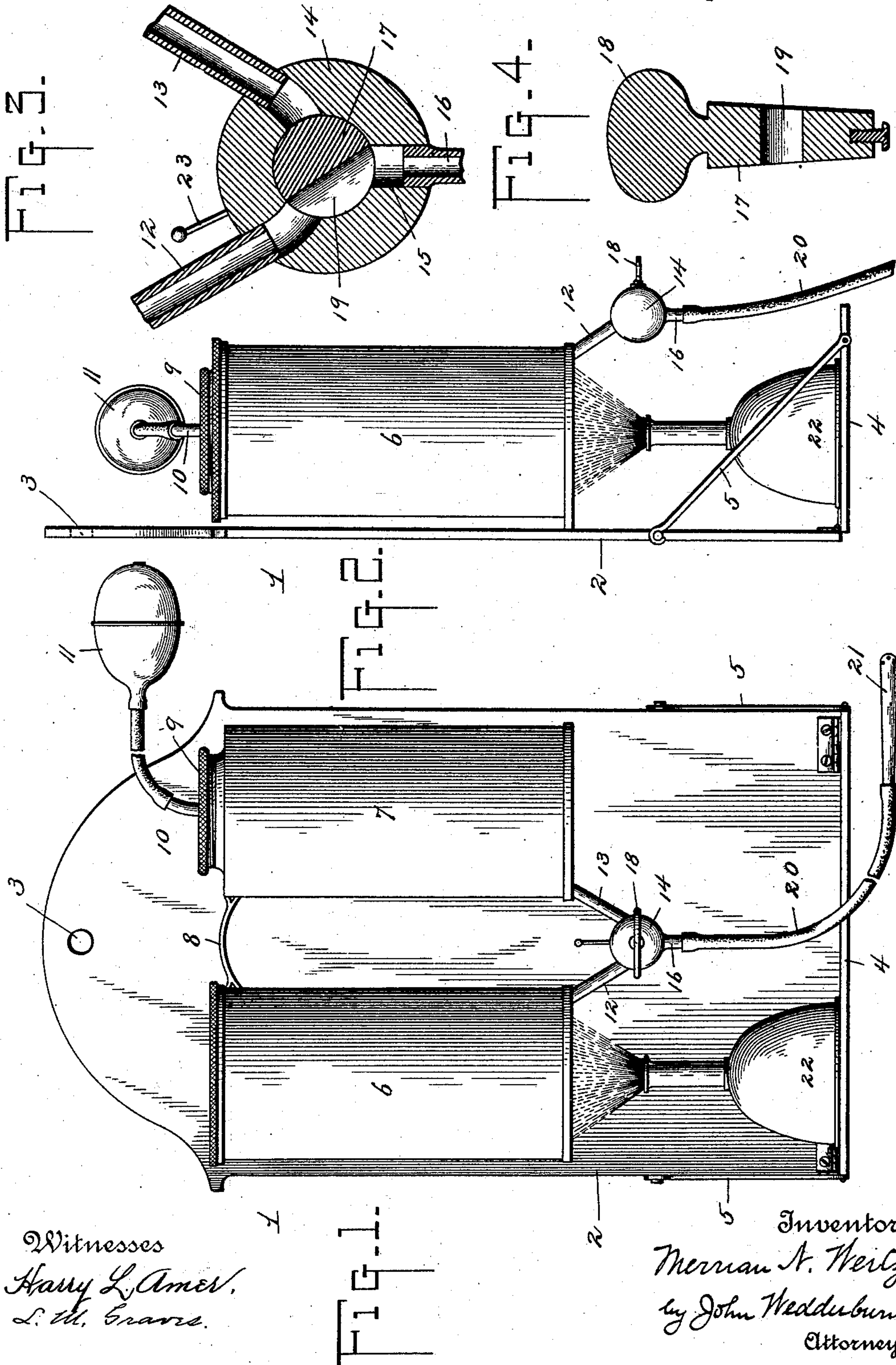


(No Model.)

M. N. WERTZ.  
SYRINGE.

No. 580,674.

Patented Apr. 13, 1897.





# UNITED STATES PATENT OFFICE.

MERRIAN N. WERTZ, OF THOMASVILLE, GEORGIA.

## SYRINGE.

SPECIFICATION forming part of Letters Patent No. 580,674, dated April 13, 1897.

Application filed July 10, 1896. Serial No. 598,749. (No model.)

*To all whom it may concern:*

Be it known that I, MERRIAN N. WERTZ, a citizen of the United States, residing at Thomasville, in the county of Thomas and State of Georgia, have invented certain new and useful Improvements in Syringes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in syringes, the object of the same being to provide such a device which is particularly adapted for use by physicians or patients who wish to treat themselves, whereby medicinal or irrigating compounds may be readily and conveniently applied, whereby the same may be heated before they are applied, and whereby all the parts thereof may be readily and conveniently cleaned.

The invention consists of a bracket made up of a back piece and a shelf hinged to the lower end thereof, one or more reservoirs for water or medicinal compounds secured to the front face of said back piece at points near its upper end, and a lamp for heating the contents of said reservoirs resting upon said shelf, pipes leading from said reservoirs to a main discharge-pipe, a valve for controlling the flow of the water or medicinal compound located at the juncture of said pipes, a cap for sealing the upper end of one of said reservoirs, and a rubber bulb and pipe connected to said cap.

It also consists in other details of construction and combinations of parts which will be hereinafter more fully described and claimed.

In the drawings forming part of this specification, Figure 1 represents a perspective view of my improved syringe. Fig. 2 is a side elevation of the same. Fig. 3 is a vertical sectional view through the valve employed. Fig. 4 is a similar view of the plug or cock therefor.

Like reference-numerals indicate like parts in the different views.

In carrying out my invention I use the bracket 1, made up of a back piece 2, having an opening 3 at its upper end, by means of which the same may be supported upon a nail or hook, and a shelf 4, hinged to the lower end thereof, adapted to be folded downwardly

and suitably supported by bracing-rods 5 5. Secured to the front face of the back piece 2 are reservoirs 6 7, the reservoir 6 being provided for holding water or other irrigating compound and the reservoir 7 for holding medicinal compounds. These reservoirs are supported in any suitable way and are connected at their upper ends by bracing rods or bars 8. The reservoir 7 is provided with a screw-cap 9 for hermetically sealing the same, and has leading thereinto a pipe 10, connected to a rubber bulb 11 at its outer end, by means of which pneumatic pressure may be applied to eject the medicinal compound from the reservoir 7 with any degree of force.

Leading outwardly from the bottom of the reservoir 6 is a pipe 12, and a similar pipe 13 leads from the reservoir 7, both pipes connecting with a cylindrical valve-casing 14, having an opening 15 in its lower end with a nipple 16 thereon. Moving on the inside of the casing 14 is a rotatably-mounted plug 17, having a handle 18 upon its outer end and an orifice 19 extending laterally therethrough. By turning this plug in one direction or the other it will be seen that the contents of one or the other of the reservoirs 6 and 7 may be discharged from the opening 15 in said valve-casing.

Connected to the nipple 16 is a rubber tube 20 of any desired length, having an injecting-nozzle 21 of any suitable form upon its outer end. In connection with the foregoing parts I employ an alcohol or other lamp 22, which is adapted to be rested upon the shelf 4 for the purpose of heating the contents of one or the other of the reservoirs 6 7. One or more of these lamps 22 may be employed, and the same may be located so that the heat generated thereby will be applied to the reservoirs along their adjacent side edges for the purpose of keeping the contents of said reservoirs in a slightly warm condition at all times.

In using my device the injecting-nozzle 21 is applied to the part which is to receive the medication and the plug 17 turned so that the water from the reservoir 6 or the medicinal compound from the reservoir 7 will be discharged through the opening 15, through nipple 16, and tube 20, to the desired point. It



will of course be understood that if irrigation of the desired part is desired the plug 17 will be so turned as to draw the water from the reservoir 6. If medication only is desired, it  
5 will be turned so as to draw the medicinal compound from the reservoir 7. If both irrigation and medication are desired, however, said plug will first be turned to draw the water from the reservoir 6 and afterward turned  
10 to draw the medicinal compound from the reservoir 7. The reservoirs 6 and 7 are intended to be located at such a point that the pressure exerted by the fall thereof will be sufficient to eject the material in use with the  
15 proper force to the desired part. If, however, greater force is desired, it can be obtained by compressing the rubber bulb 11, forcing air therefrom through the pipe 10 and cap 9 into the upper end of the reservoir 7.  
20 It should be stated that an index-rod 23 is secured to the side of the plug 17 to indicate the direction said plug should be turned in order to draw off the contents of one or the other of the reservoirs 6 and 7.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a syringe, the combination with a bracket made up of a back piece having means for supporting the same upon a nail or hook and  
30 a shelf hinged to the lower end of said back piece and supported by suitable bracing-rods, of a plurality of reservoirs for containing water and medicinal compounds respectively,  
35 a lamp resting upon said shelf for heating the contents of said reservoirs, pipes leading from said reservoirs, a two-way valve at the juncture of said pipes, a tube leading from said valve, and an injecting-nozzle upon the outer  
40 end of said tube, substantially as and for the purpose described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

MERRIAN N. WERTZ.

Witnesses:

H. W. LESTER,  
M. C. BALL.