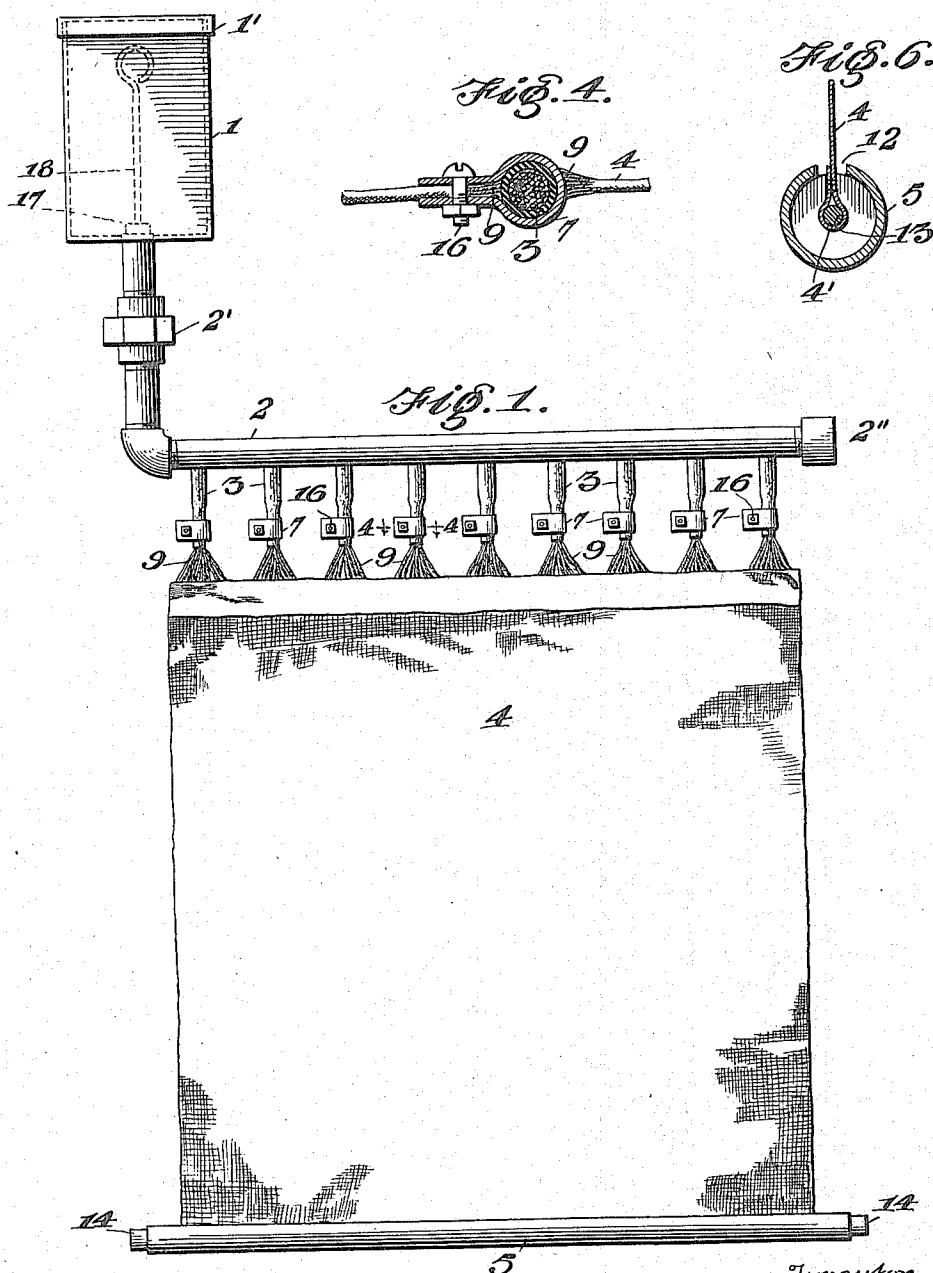


S. W. WOMACK.
COOLING AND DISINFECTING DEVICE.
APPLICATION FILED APR. 13, 1914.

Patented Feb. 23, 1915.

2 SHEETS—SHEET 1.

1,129,772.



Witnesses

H. Woodard

E. Clement

Inventor

Samuel W. Womack

By

A. B. Wilson

Attorney

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Fig. 2.

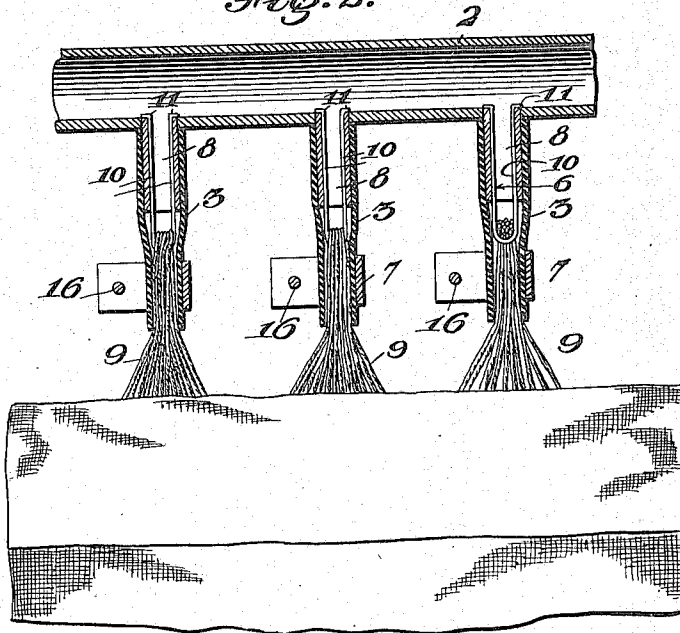


Fig. 5.

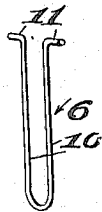


Fig. 5.

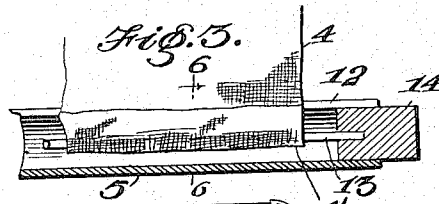
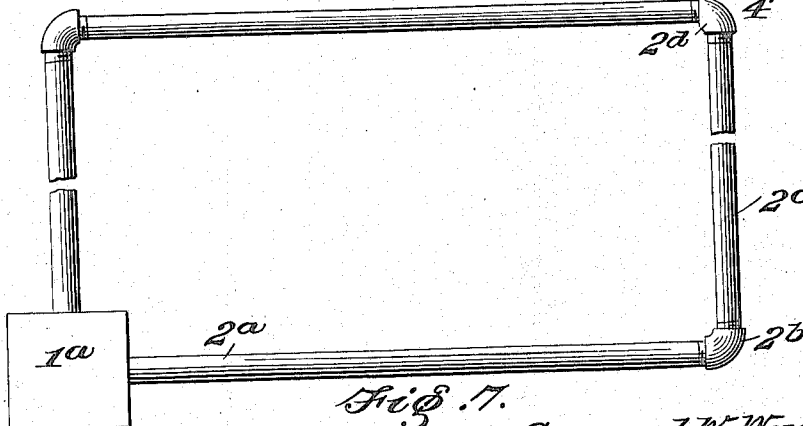


Fig. 7.

Inventor

Samuel W. Womack

Witnesses

H. Woodard
P. C. C. C. C.

By

A. B. Wilson & Co.

Attorney

UNITED STATES PATENT OFFICE.

SAMUEL W. WOMACK, OF QUANAH, TEXAS.

COOLING AND DISINFECTING DEVICE.

1,129,772.

Specification of Letters Patent.

Patented Feb. 23, 1915.

Application filed April 13, 1914. Serial No. 831,600.

To all whom it may concern:

Be it known that I, SAMUEL W. WOMACK, a citizen of the United States, residing at Quanah, in the county of Hardeman and State of Texas, have invented certain new and useful Improvements in Cooling and Disinfecting Devices; and I do 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 improvements in cooling and disinfecting devices and has for its primary object to provide a simple, inexpensive and efficient device of this character which will be well adapted to the purpose for which it is designed.

In carrying out the above end, I provide a fluid feed pipe having a number of discharge nipples, a curtain depending from said nipples, a slotted tube at the lower end of said curtain for catching the drippings therefrom and means whereby the supply of fluid may be increased or decreased.

A secondary object of the invention is to provide simple and efficient means whereby the curtain may be detachably supported by the feed pipe and to so position the parts about said means as to cause the same to be hidden from view.

A further object of the invention is to construct the upper end of the curtain in such a manner as to cause it to readily coact with said attaching members and to also effectually distribute the liquid flowing from the feed pipe.

Still another object of the invention is to construct the means for controlling the supply of fluid in the most simple manner consistent with its proper operation.

A still further object is to construct the tube, at the lower end of the curtain, in such a manner as to allow said curtain to be readily removed and to provide means for detachably retaining said curtain in said tube.

With the above objects in view, the invention resides in certain novel features of construction and combination herein described and claimed and shown in the drawings wherein:—

Figure 1 is a side elevation of the invention; Fig. 2 is a longitudinal section through a portion of the fluid feed pipe and showing more particularly the manner in which the curtain is supported; Fig. 3 is a similar view through the lower tube and the parts carried

thereby; Fig. 4 is a detail horizontal section taken on the line 4—4 of Fig. 1; Fig. 5 is a perspective view of one of the U-shaped curtain attaching members; Fig. 6 is a transverse section taken along the plane of the line 6—6 of Fig. 3; and Fig. 7 is a plan view showing the manner in which a number of fluid feed pipes may be connected.

In the accompanying drawings, I have shown my improved cooling and disinfecting device as comprising in general, a reservoir 1, a fluid feed pipe 2 leading therefrom, a number of longitudinally spaced flexible tubes 3 depending from the pipe 2, a curtain 4, a tube 5 at the lower end of said curtain and adapted to retain any liquid dripping therefrom, U-shaped curtain attaching members 6 and clips 7 for compressing said flexible tubes to control the amount of fluid passing therethrough.

The reservoir 1 may be of any suitable shape and size but is preferably provided with a removable cover 1' by means of which access to its interior may be gained, for obvious reasons. The reservoir 1 is preferably though not necessarily, connected to the pipe 2 by means of a union 2', the free end of said pipe 2 being closed by a screw cap 2".

The abovementioned flexible tubes 3 are preferably formed of rubber and are attached to the pipe 2 by expanding their upper ends and passing the same over nipples 8 which depend from the pipe 2.

As most clearly shown in Fig. 2, the upper portion of the curtain or screen 4 is provided with a series of groups of upwardly converging loops 9, the free ends of the loops of each group, entering the lower end of the tubes 3 and being secured therein by the U-shaped attaching members 6 which are preferably formed of single pieces of resilient wire bent substantially upon themselves at their central portions to provide upright resilient arms 10 while the free ends of said arms are bent laterally as indicated at 11, to provide supporting elements which are adapted to overlie the lower side of the pipe 2 until said arms 10 are compressed, whereupon said laterally turned ends 11 may be moved downwardly within the nipples 8 and tubes 3 thereby allowing the curtain 4 to be removed. As clearly shown in said Fig. 2, the loops of the members 6 pass through the various loops 9 of their respective series from which they may be easily removed when necessary.

As the curtain 4 is adapted to be moistened by a fluid, discharged from the pipe 2, it becomes expedient to provide means for catching any liquid dripping from its lower end. For this purpose I have employed the tube 5 which is slotted throughout the length of its upper surface as shown at 12, the lower end of said curtain being provided with a rod 13 which projects laterally from its opposite edges, said rod being adapted to pass through the slot 12 and into the tube 5, in which position it is retained by means of apertured plugs 14 which fit snugly within the opposite ends of said tube and act not only to retain the rod 13 in proper position, but to prevent any moisture from dripping from said ends of the tube.

When it becomes necessary to remove the tube 5, the plugs 14 may be removed thereby allowing said tube to pass downwardly. The rod 13 may now also be removed if necessary, by simply sliding the same out of a longitudinal loop 4', formed on the lower end of the curtain 4, for its reception.

For the purpose of controlling the amount of fluid discharged from the lower ends of the tubes 3, I provide each of said tubes with a substantially U-shaped clip 15 through the free ends of which clamping screws 16 pass, thereby allowing the tubes 3, to be compressed for the purpose of diminishing the supply of fluid.

In cases where an extremely light curtain is employed, the clips 15 will undoubtedly suffice for the purpose of supporting said curtain and yet will allow a suitable amount of fluid to be discharged from the tubes 3. This means of support however, is not sufficient in most cases and I prefer to employ the members 11.

In Fig. 7, I have shown a plan view of a reservoir 1^a from which a supply pipe 2^a leads, said supply pipe being connected by means of an elbow with a lateral feed pipe 2^b which in turn is connected to a pipe 2^c lying parallel with the pipe 2^a while said pipe 2^c is connected by an elbow with a pipe 2^d which lies parallel to the pipe 2^b. It is to be understood that a curtain depends from each of these pipes and that said curtains and their supporting means as well as the various other features of the device, are identical with the form previously described. A further explanation and illustration is therefore deemed unnecessary.

From the foregoing description taken in

connection with the accompanying drawings, it will be seen that I have produced a comparatively simple device of the character described yet one which will be highly efficient in operation and which may be inexpensively constructed.

If found desirable, the reservoir 1 may be provided with a valve or cock 17 which may be equipped with an operating handle 18, these features being shown in dotted lines in Fig. 1.

I have described my invention with considerable minuteness and have set forth certain specific embodiments for carrying out the objects of the invention but I wish it clearly understood that I need not be limited to any details of construction, proportioning of parts, etc., other than those set forth in the appended claims.

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

1. A device of the character described including a transverse fluid feed pipe having a number of discharge openings in its under side, a curtain below said pipe, U-shaped loops attached to the upper edge of the curtain and having the ends of their arms entering said openings and bent laterally in the pipe to provide supports for the curtain, and means for feeding liquid to said pipe.

2. A device of the character described including a lateral fluid feed pipe, a number of flexible discharge tubes depending therefrom, a curtain suspended below the pipe and having portions entering said flexible tubes, and means whereby said tubes may be compressed, thereby diminishing the fluid supply.

3. A device of the character described including a lateral fluid feed pipe, a number of flexible tubes depending therefrom, a curtain below the tubes, and having portions entering the lower ends thereof, removable attaching elements rising from the portions of the curtain in the tubes, and independent clamps for compressing the tubes to diminish the fluid supply.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

SAMUEL W. WOMACK.

Witnesses:

W. P. McCLENNAHAN,
ED JONES.