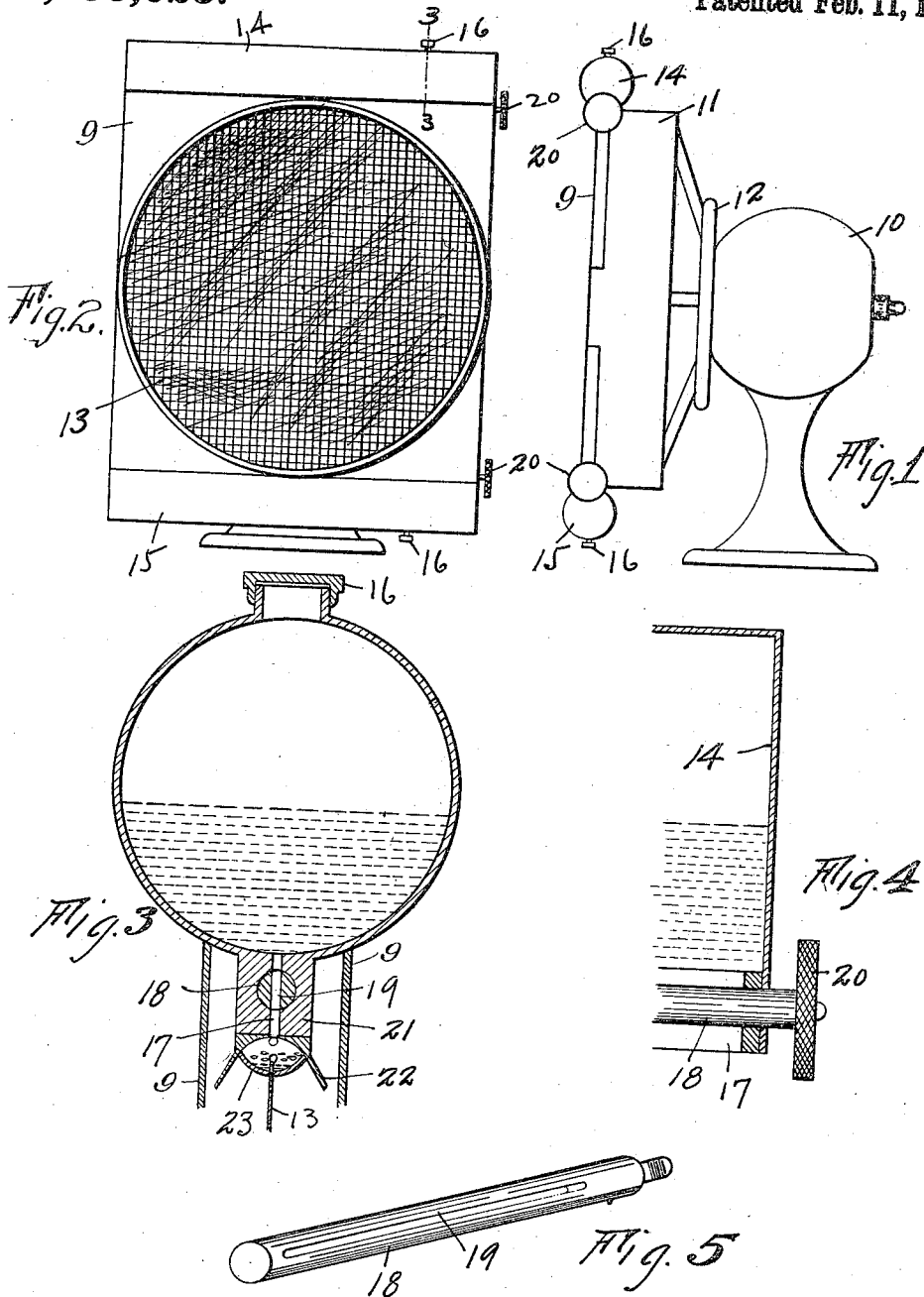


W. A. GROVER.
 COOLING ATTACHMENT FOR MOTOR DRIVEN FANS.
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1,053,028.

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WITNESSES
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WILBUR A. GROVER, OF LONG LAKE, WASHINGTON.

COOLING ATTACHMENT FOR MOTOR-DRIVEN FANS.

1,053,028.

Specification of Letters Patent.

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Application filed March 19, 1912. Serial No. 684,891.

To all whom it may concern:

Be it known that I, WILBUR A. GROVER, a citizen of the United States, residing at Long Lake, in the State of Washington, have invented certain new and useful Improvements in Cooling Attachments for Motor-Driven Fans; 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.

This invention relates to cooling attachments for motor driven fans and has for an object to provide means for positioning a screen or fabric in front of the fan and other means for supplying moisture continuously to the fabric.

A further object of the invention is to provide in combination with a motor driven fan a frame carrying a fabric positioned in front of the fan with reservoirs at the top and bottom of the frame adapted to supply moisture to and receive moisture from the fabric, such frame to be inverted to reverse the direction of flow of the fluid.

With these and other objects in view the invention comprises certain novel constructions, combinations and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawings:—Figure 1 is a view in side elevation of a conventional motor driven fan with the improved cooling apparatus attached thereto. Fig. 2 is a view of the cooling attachment in front elevation. Fig. 3 is an enlarged transverse sectional detail view of one of the reservoirs and the valve controlling the flow of fluid from the reservoir to the fabric, taken along line 3—3 of Fig. 2. Fig. 4 is a detail view in longitudinal section of the reservoir and valve. Fig. 5 is a detail perspective view of the valve removed from the valve casing.

Like characters of reference indicate corresponding parts throughout the several views.

The present invention is adapted to be associated with motor driven fans of any ordinary or approved build, a conventional electric fan motor being shown at 10 in Fig. 1 with the invention attached thereto.

The invention comprises a frame 11 mounted upon the motor 10 so as to be rotated to reverse by employing any approved means as the movable collar 12. Secured to the frame 11 at its front is a tank support-

ing frame 9, which has an opening covered by a fabric 13 and is provided at the top and bottom respectively with reservoirs 14 and 15. The receptacles are provided with any approved means for introducing fluid thereto as the screw caps 16 and with a passage 17 communicating with the reservoir opposite such screw cap. The passage 17 is controlled by a valve 18 which has a slot 19 proportioned to register with the passage 17 and controlled in any desired or ordinary manner, as by means of the knurled head 20. The passage 17 extends through a block 21 which carries a trough 22 closed by a foraminous closure 23 so that fluid discharged from the receptacle 14 through the passage 17 when the receptacle is in the position shown in Fig. 3 is discharged immediately upon the foraminous closure 23 and from there passes to and upon the fabric 13 and flows across the opening covered by such fabric. The lower receptacle 15 has its trough 20 in a position inverted from that shown at Fig. 3 so that the fluid flowing across the fabric is caught by the trough 22 and guided thereby through the passage 17 into the lower receptacle 15.

When the fluid has all flowed from the upper receptacle across to the lower receptacle the frame is inverted by simply rotating upon the means attaching to the motor, as for instance the collar 12, which reverses the flow of the fluid so that the receptacle previously located at the bottom now becomes the top reservoir and the fluid flows therefrom again across the screen or fabric 13 to the lower reservoir. It will thus be seen that the fluid is used continuously until evaporated by simply reversing the frame as often as may be necessary and that when the fluid has been evaporated it is replenished by refilling one or both of the reservoirs by removing the screw cap 16.

I claim:—

1. The combination with a motor driven fan, of a frame mounted to be rotated relative to the motor, a fabric carried by the frame positioned in front of the fan, and reservoirs carried by the frame one above and one below the fabric and capable of being inverted.

2. The combination with a motor driven fan, of a frame mounted upon the motor and capable of being inverted, a fabric carried by the frame positioned in front of the fan, and reservoirs located at the top and

bottom of the frame positioned one to discharge fluid upon and the other to receive fluid from the fabric.

3. The combination with a motor driven fan, of a frame mounted upon the motor and capable of being inverted, a fabric carried by the frame positioned in front of the fan, reservoirs carried by the frame one above and one below the fabric the upper provided with a passage adapted to discharge

fluid upon the fabric, and the lower provided with a passage adapted to receive fluid from the fabric and conduct it to such lower reservoir.

In testimony whereof I affix my signature in presence of two witnesses.

WILBUR A. GROVER.

Witnesses:

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