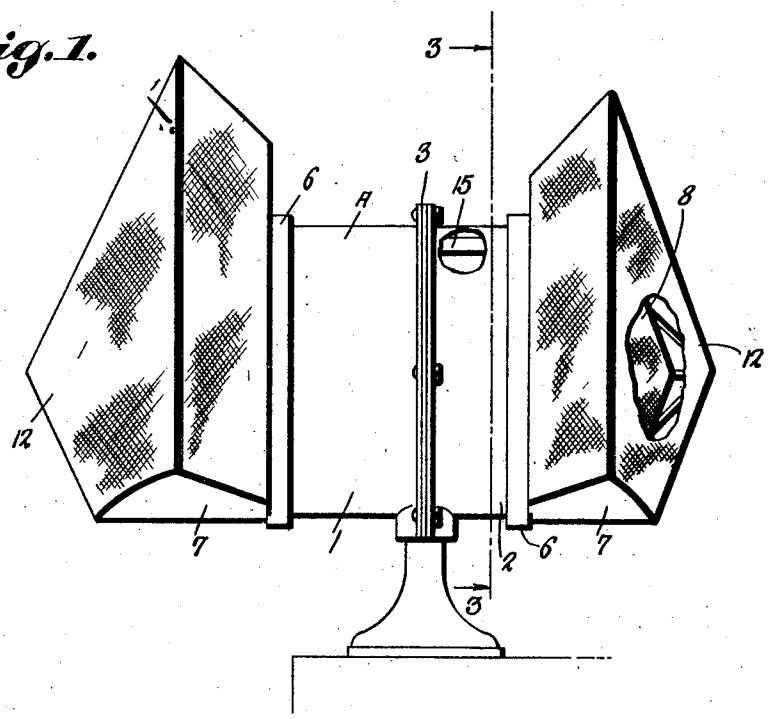
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COOLING FAN ATTACHMENTS

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Fig. 1.



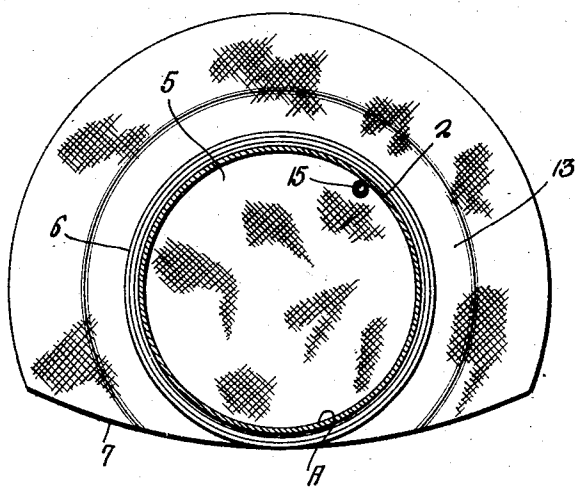
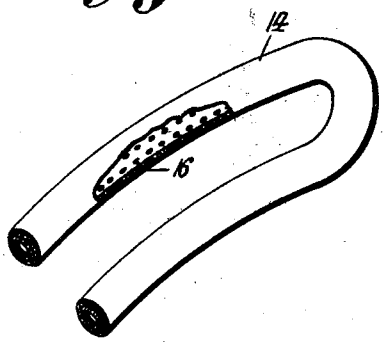


Fig. 3.

Fig. 5.



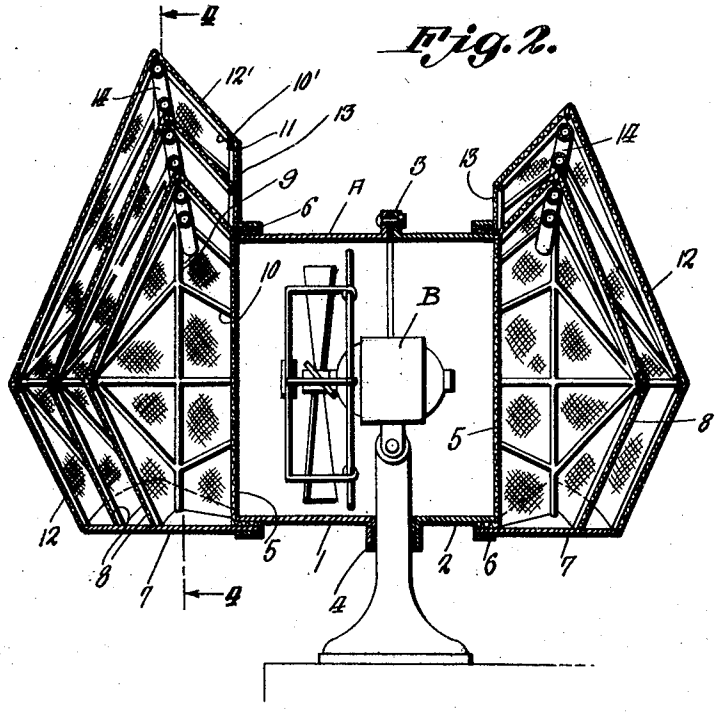
Ella Patrick,
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COOLING FAN ATTACHMENTS

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Fig. 2.



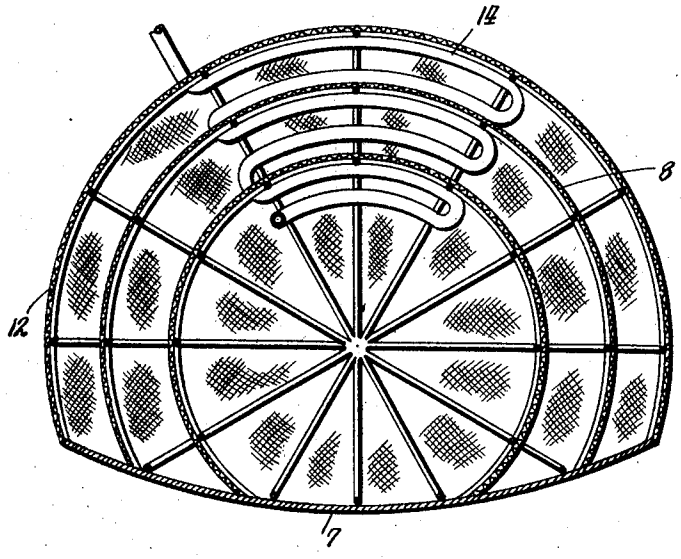


Fig. 4.

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UNITED STATES PATENT OFFICE

ELLA PATRICK, OF OLATHE, COLORADO

COOLING-FAN ATTACHMENT

Application filed November 15, 1929. Serial No. 407,527.

This invention relates to an attachment for a fan, the general object of the invention being to provide a cylinder for enclosing the fan, with frames at each end of the cylinder supporting screens of burlap or the like, with means for moistening the screens whereby the air currents, caused by the rotating fan, will pass through the screens, so that the cooling effect of the fan will be greatly increased.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing the invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is an elevation of the invention, with parts broken away.

Figure 2 is a longitudinal sectional view of Figure 1.

Figure 3 is a section on line 3—3 of Figure 1.

Figure 4 is a section on line 4—4 of Figure 2.

Figure 5 is a detail view of a portion of the water pipe.

In these drawings, the letter A indicates a cylinder which encloses the fan B, this cylinder being formed of the sections 1 and 2 which are suitably connected together in an air-tight manner, as shown at 3, and each section is formed with a semi-circular depending part 4, the two parts acting as a clamp when the sections are connected together, to support the cylinder on the pedestal of the fan, as clearly shown in Figures 1 and 2.

Each end of the cylinder is covered by a screen 5 of burlap or the like which is fastened to the cylinder by a ring 6. A curved extension 7 is connected with the lower part of each end of the cylinder and a plurality of frames 8, formed of wire, is arranged at each end of the cylinder, each frame being of substantially conical shape with a ring 9 at its base, these rings being spaced from the ends of the cylinder and the frames are of gradually increasing area. The frames at each end of the cylinder engage the extension 7 and are suitably connected together in spaced relation. Some of the connecting wires 10 of the inner frame are connected with the end of the cylinder and the connecting wires 10′ of the other frames are connected with the rings 11, which are of greater diameter than the cylinder, these rings being connected by cross wires with the cylinder, and said rings are also connected with the extension 7. I prefer to arrange three of these conical frames at the front end of the cylinder and two of them at the rear end thereof. A screen 12 of burlap or the like covers each frame and this burlap, after passing over the base ring 9, extends rearwardly and inwardly, as shown at 12′, with portions of the screen covering the inner face of the structure, as shown at 13. A pipe 14, provided with a plurality of loops, is provided for supplying water or the like to the different screens on the frames, the looped pipe at the rear of the device being connected with the looped pipe at the front thereof by the pipe 15 which passes through the cylinder. The loop portions of the pipes are perforated, as shown at 16. The front pipe is connected to any suitable source of supply so that the liquid entering the pipe will moisten the burlap carried by the conical frames at the front and rear of the device.

From the foregoing it will be seen that when the fan is in operation, it will draw air through the two screens on the conical frames at the rear of the device and through the screen 5 which covers the rear end of the cylinder, into the cylinder, and discharge this air through the screen 5 which covers the front of the cylinder and through the three screens carried by the conical frames at the front of the cylinder, so that this air is moistened as it passes through the wet burlap, which will greatly add to the cooling effect of the fan so that a room in which the fan is placed will be quickly cooled when the fan is in operation.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. In combination with a motor driven fan, a cylinder surrounding the same and supported from the pedestal of the fan, a cloth screen covering each end of the cylinder, a set of frames in rear of the cylinder, a set of frames in front thereof, each frame being of substantially conical shape and formed of wire, with the frames of each set being of gradually increasing area, cloth screens covering the frames and so arranged that the air entering the cylinder and leaving the same must pass through such screens and means for moistening the screens carried by the frames.

2. In combination with a motor driven fan, a cylinder surrounding the same and supported from the pedestal of the fan, a cloth screen covering each end of the cylinder, a set of frames in rear of the cylinder, a set of frames in front thereof, each frame being of substantially conical shape and formed of wire, with the frames of each set being of gradually increasing area, cloth screens covering the frames and so arranged that the air entering the cylinder and leaving the same must pass through such screens, means for moistening the screens carried by the frames, such means consisting of a looped perforated pipe having the perforations arranged to discharge liquid onto the upper portions of the screens.

In testimony whereof I affix my signature.

ELLA PATRICK.