Feb. 11, 1930. G. VAN 1,746,505

AIR MOISTENING DEVICE FOR INCUBATORS

Filed Oct. 24, 1927

Fig. 1.

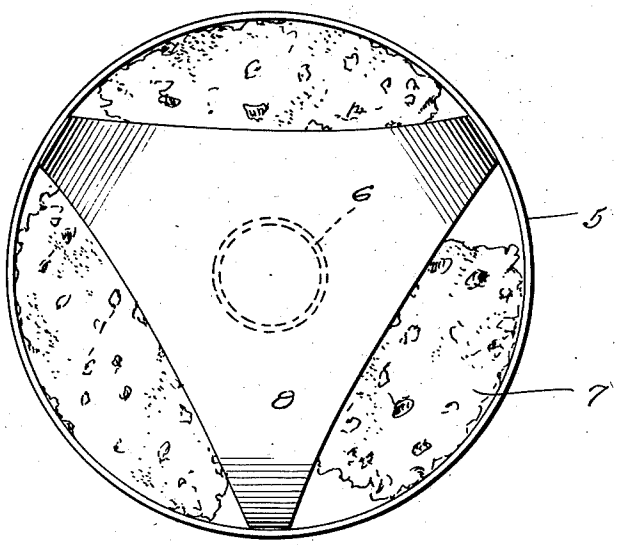
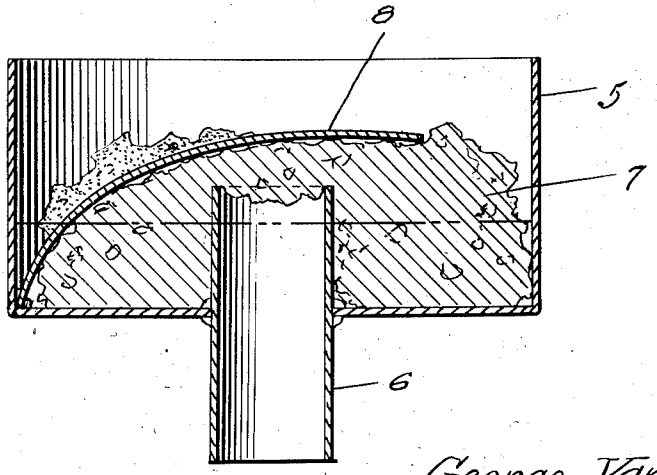


Fig. 2.



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UNITED STATES PATENT OFFICE

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AIR-MOISTENING DEVICE FOR INCUBATORS

Application filed October 24, 1927. Serial No. 228,341.

This invention relates to new and useful improvements in air moisteners and aims to provide a highly novel, simple and efficient moistener for use in incubators whereby the air taken into the incubator thru the usual air intake opening will be properly moistened which is necessary for the successful hatching of the eggs.

Furthermore, by reason of the present invention the humidity of the air within the incubator is maintained at a uniform degree, the variations of humidity of the air within incubators now in use being one of the greatest disadvantages thereof.

In carrying out the present invention, there is provided a suitable water container having an air inlet pipe arranged through its bottom wall, projecting at its upper end into said container, above the water level thereof, the lower end of the pipe adapted for arrangement within the usual air inlet opening of an incubator, while for disposition within the container, there is provided a sponge that is arranged over the upper end of the pipe.

Obviously, the sponge will soak up the water. and as the air passes through the pipe, into the sponge it will be properly moistened, and this at a uniform degree, bringing about the required result.

It is of course known that the humidity in different locations widely varies, and therefore, the particular incubator may be highly efficient at one location but inefficient at another location.

The proper moisture for the incubator is supplied at all times by reason of my improved device.

One of the most important objects of this invention is to provide an air moistener that is of extremely simple construction and inexpensive to manufacture and that may be readily arranged within the air inlet opening of an incubator or as easily removed therefrom for cleaning, repair, or renewal purposes.

In the drawing wherein like reference characters indicate like parts throughout the several views:—

Figure 1 is a top plan view of my improved moistener, and

Fig. 2 is a detail vertical section thereof.

Now having particular reference to the drawing, my novel moistener consists of a water container 5 preferably of circular configuration and open at its top side. The bottom wall of this container is formed centrally with an opening within which is arranged an air intake pipe 6, the upper end of which extends considerably within the container 5, as clearly disclosed in Fig. 2.

The level of the water within the container must at all times be below the upper end of the pipe 6. For disposition within this container 5 and over the upper end of the pipe 6, there is provided a sponge 7, that will become soaked with the water for obviously causing the air entering the container through the pipe 6 to be moistened.

In carrying out the present invention, the lower end of the pipe 6 is to be disposed through the air inlet opening of an incubator with the container 5 resting upon the wall of the incubator so that no particular fastening means will be required for maintaining the container in position.

In order to maintain the sponge 7 in proper position within the container 5 and to hold a portion of the same over the upper end of the pipe 6 there is provided a relatively triangular shaped plate 8 that is of curvilinear formation so that the central portion thereof will be arranged above the upper end of the pipe 6 within the ends of the plate resting upon the bottom wall of the container 5 as in Fig. 2.

It will thus be seen that I have provided a highly novel, simple and extremely efficient air moistener for incubators that is well adapted for all of the purposes heretofore designated and even though I have herein shown and described the device as consisting of certain detailed structural elements and of a specific design, it is nevertheless to be understood that changes may be made therein without affecting the spirit and scope of the appended claim.

Having thus described my invention, what I claim as new is:—

In an air moistener of the class described, a water container open at its top side, an air pipe having its upper end projecting through the bottom of the container into the latter

above the water level in the container, the lower end of the pipe providing an air inlet, porous material submerged in the water in the container and having a portion thereof completely covering the outlet end of the air pipe that projects upwardly into the container, whereby the air passing through the pipe and the porous material will be moistened, and means for maintaining the porous material over the upper end of the pipe, said last mentioned means comprising a substantially triangular shaped plate constructed of spring metal, said plate being of curvilinear formation whereby the central portion thereof is arranged on top of the porous material above the upper end of the air pipe, the ends of said triangular shaped plate engaging with the bottom and side walls of the container.

In testimony whereof I affix my signature.

GEORGE VAN.