No. 649,247. Patented May 8, 1900.

J. M. HUSTERMANN.

BARREL VENTILATOR.

(Application filed Jan. 2, 1900.)

(No Model.)

FIG. 1

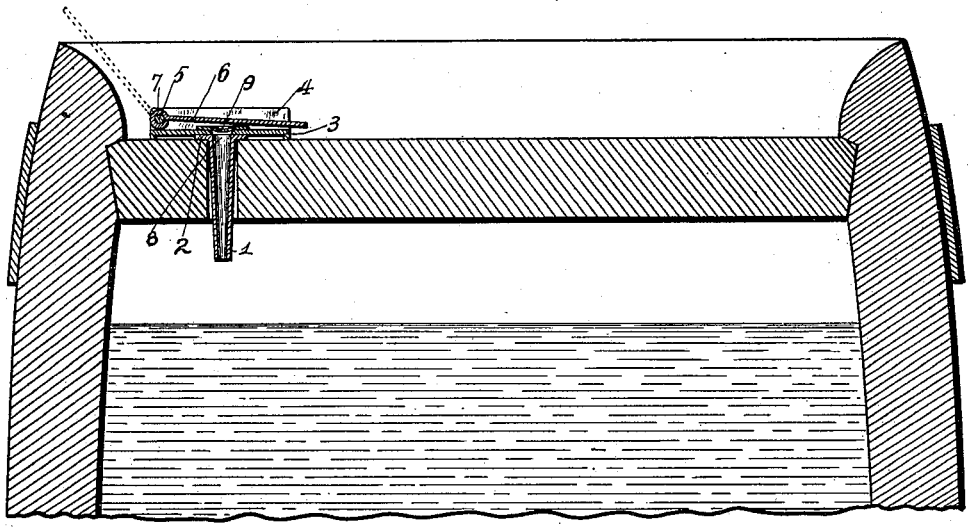

FIG. 2

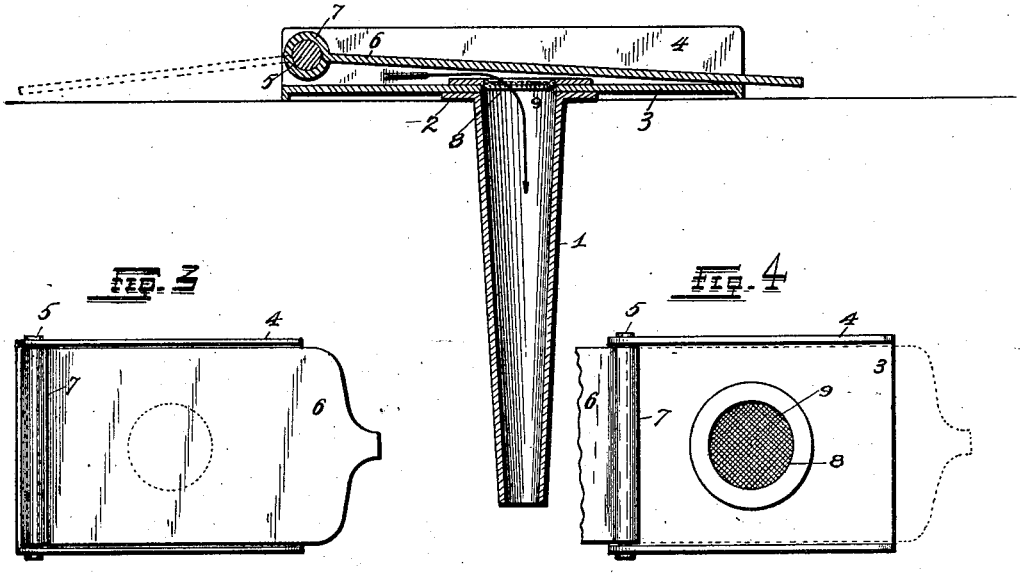

FIG. 3

FIG. 4

Witnesses.

Alfred A. Fickes

J. L. Ripley

Inventor.

John M. Hustermann

By Higdon & Longan Attys

UNITED STATES PATENT OFFICE.

JOHN MATHIAS HUSTERMANN, OF WASHINGTON, MISSOURI.

BARREL-VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 649,247, dated May 8, 1900.

Application filed January 2, 1900. Serial No. 39. (No model.)

To all whom it may concern:

Be it known that I, JOHN MATHIAS HUSTERMANN, of the city of Washington, county of Franklin, State of Missouri, have invented certain new and useful Improvements in Barrel-Ventilators, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

This invention relates to barrel-ventilators; and it consists of the novel construction, combination, and arrangement of parts hereinafter described and claimed.

The object of this invention is to provide a device by means of which the air may be allowed to pass into and out of the barrel, while at the same time preventing the passage of insects, dust, &c., into the barrel.

In the drawings, Figure 1 is a sectional view of a barrel, showing my device applied thereto. Fig. 2 is an enlarged vertical sectional view showing the arrangement of the different parts. Fig. 3 is a top plan view with the lid closed, and Fig. 4 is a view with the lid open.

In constructing this device I provide a tube 1, flanged at one end 2 and soldered or otherwise suitably secured to a plate 3. The plate 3 is turned upwardly at its sides, forming wings or sides 4. The wings 4 at one end are made to support at a suitable height above the plate 3 a hinge-rod 5, to which is pivoted one end of a door or lid 6 of a length slightly longer than the plate 3. The said lid is of such a width that it fits closely between the wings 4 and rests at its free end upon the plate 3. The pivoted end 7 of the door bent around the rod 5 is in such close proximity to the plate 3 that insects cannot pass between the two when the lid is closed.

Through the plate 3 in vertical alinement with the passage through the tube 1 is an aperture 8, and secured to the plate 3 over the said aperture is a piece of reticulated material 9, so closely woven that insects cannot pass therethrough. Instead of making the aperture 8 and covering the same with reticulated material I may, if found desirable, form a plurality of small apertures through the plate 3 in alinement with the tube 1, which arrangement would answer the same purpose.

In use the device is applied to a barrel, as shown in Fig. 1, with the tube 1 projecting into an aperture in one end of the said barrel. The lid 6 is closed, and this prevents any dust from settling down upon the reticulated material and passing down into the barrel. However, any gas formed in the barrel may pass upwardly through the tube 1 and as the lid does not bind in any way may raise the same slightly and escape, thereby avoiding any danger of the bursting of the barrel.

A device of this kind is simple, is found to be useful, no great cost is involved in its construction, and is perfectly operative.

I claim—

1. A ventilator for barrels and the like comprising a plate having vertical sides integral therewith, a tube secured to said plate, a reticulated entrance to said tube through the said plate, and a means carried by the said plate between the said vertical sides for preventing insects, dust, &c., from reaching the said entrance, substantially as specified.

2. A device of the class described, comprising a plate having vertical sides integral therewith, a tube attached to said plate, a reticulated entrance to said tube through the said plate, and a door or lid pivotally carried by the said plate between the vertical sides for preventing insects, dust, &c., from reaching the said entrance and which door allows the air to pass into and out of the barrel, when said device is applied thereto, substantially as specified.

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

JOHN MATHIAS HUSTERMANN.

Witnesses:

UPTON L. WEIRICK,

GUY F. KAHMANN.