(No Model.)

W. T. ATTERBURY.

BOX VENTILATOR.

No. 332,633. Patented Dec. 15, 1885.

Fig. 1.

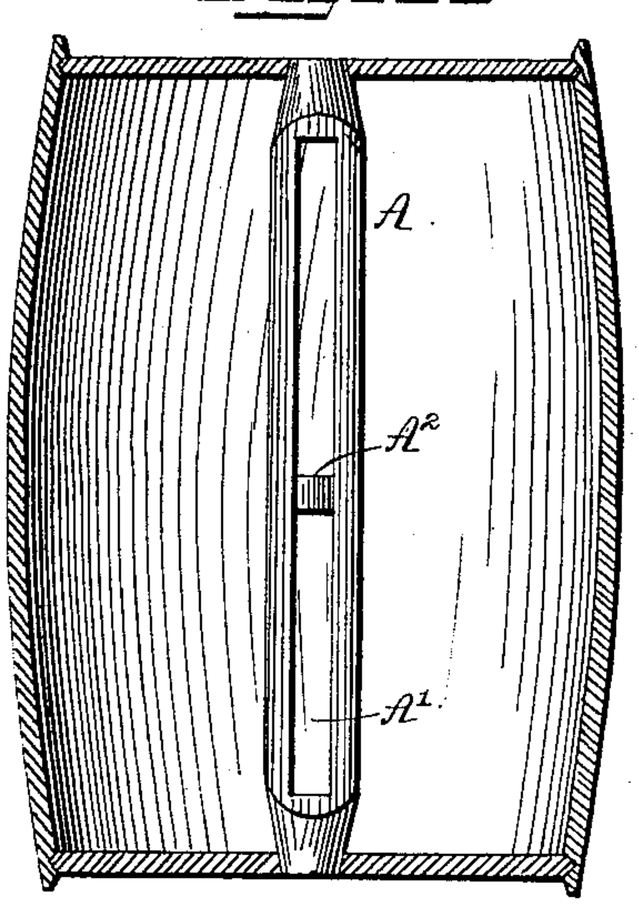


Fig. 2.

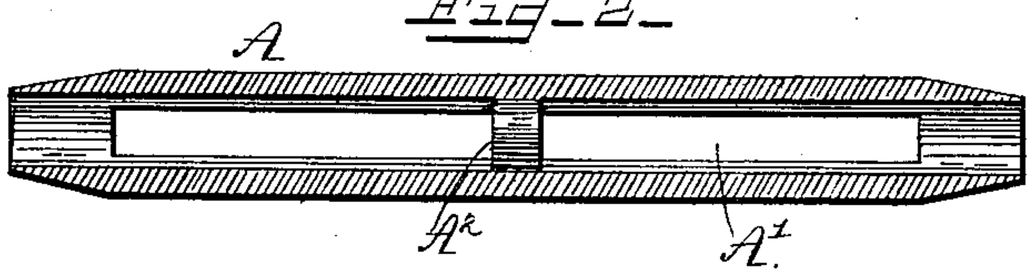
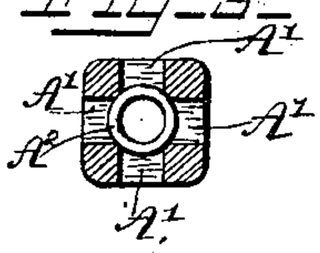


Fig. 3.



WITNESSES
R. W. Bishop.
Pearl Kramer.

INVENTOR
Wm T. Atterbury
By his Attorneys.
R. S. & A. P. Lacey

UNITED STATES PATENT OFFICE.

WILLIAM T. ATTERBURY, OF DONNELLSON, ILLINOIS.

BOX-VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 332,633, dated December 15, 1885.

Application filed October 5, 1885. Serial No. 179,049. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM T. ATTERBURY, a citizen of the United States, residing at Donnellson, in the county of Montgomery and State of Illinois, have invented certain new and useful Improvements in Box-Ventilators; 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in devices for ventilating fruit boxes and barrels; and it consists in the construction, combination, and arrangement of the several parts, as hereinafter fully described, and pointed out in the claim.

In the drawings, Figure 1 is a vertical section of a barrel having my improved device applied thereto. Fig. 2 is a longitudinal section, and Fig. 3 is a transverse section, of the ventilator.

Referring to the drawings, A represents the ventilating-tube, which may be circular in cross-section, or square with rounded corners, as shown in Fig. 3. It is provided with the longitudinal slots A′, which run nearly the full length of each side of the tube, as shown. The tube is open at both ends, and its outer diameter diminishes at each end, thereby giving the ends the formation of frustums of cones. The heads or ends of the barrels are provided with circular openings of less diameter than the largest diameter of the tubes. One end of the tube is inserted in the fixed end of the barrel or crate, and the other end of the barrel or crate is placed over the tube and secured in position, as will be understood from Fig. 1.

By reason of the described construction of the ends of the tube and the barrel-heads the tube is prevented from slipping out from the barrel. Where so desired, a number of tubes could be used, and such an arrangement would be advantageous where the device is applied to a very large crate or box.

In order to overcome the pressure of the fruit on the tube, and prevent the same being broken thereby, I insert a strengthening-ring, A^2, in the tube midway its ends, as shown.

The operation of my device will be readily understood. The fresh air enters the tube through either end, and passes through the longitudinal slots in its sides, and then circulates through the fruit.

The device is simple in construction, and can be manufactured at a small cost.

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

The herein shown and described ventilator for crates and barrels, consisting of a tube made of a single piece and provided with a series of longitudinal slots extending nearly its whole length, and a ring located midway therein to sustain outward pressure, the ends of the tubes being open and presenting the shape of truncated cones, as and for the purposes specified.

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

WILLIAM T. ATTERBURY.

Witnesses:
WM. M. HAMPTON,
VIRGIL D. NEAL.