J. W. CALHOON.

SHIPPING CAR VENTILATOR.

APPLICATION FILED DEC. 6, 1920.

1,383,787.

Patented July 5, 1921.

2 SHEETS—SHEET 1.

Fig. 1.

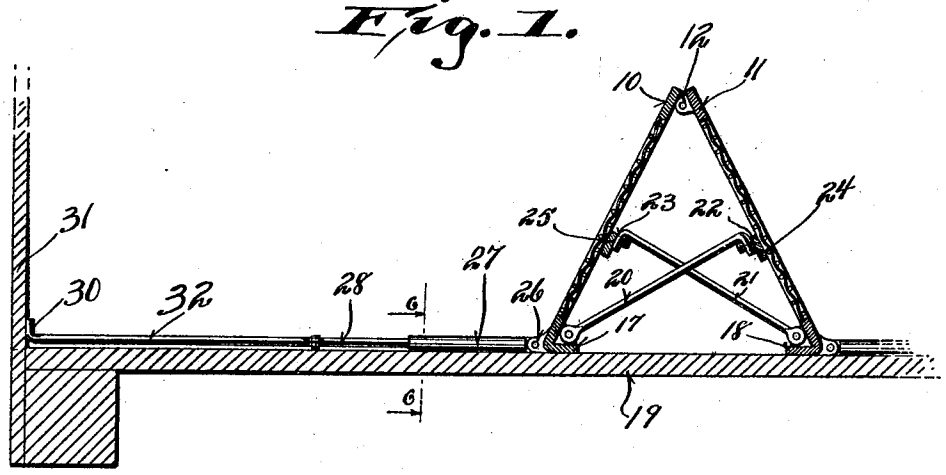
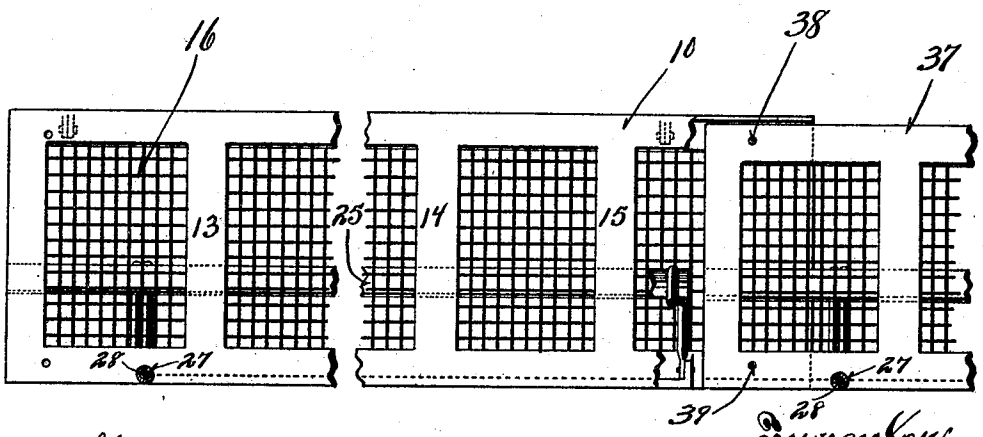


Fig. 2.



Witness:

Robert E. Weber

Inventor:

Jesse W. Calhoon

By Young & Young

Attorneys

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2 SHEETS—SHEET 2.

Fig. 3.

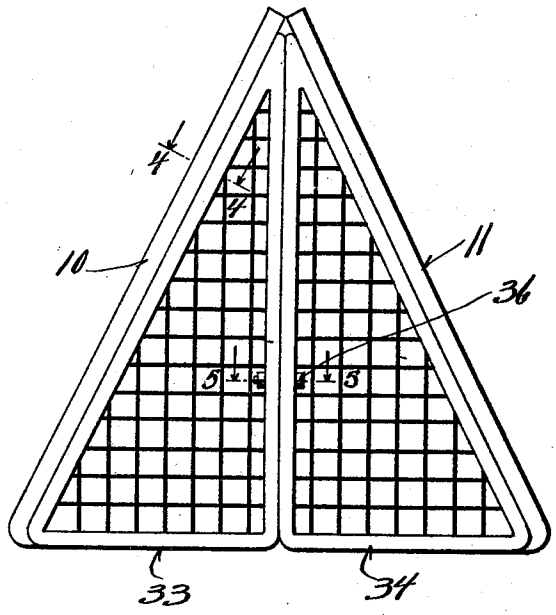


Fig. 4.

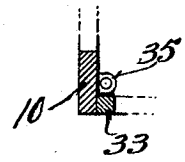


Fig. 5.

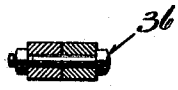
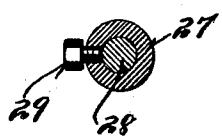


Fig. 6.



Witnesses:
Robert E. Weber

Inventor:
Jesse W. Calhoon
By Young & Young
Attorneys.

UNITED STATES PATENT OFFICE.

JESSE W. CALHOON, OF RACINE, WISCONSIN.

SHIPPING-CAR VENTILATOR.

1,383,787. Specification of Letters Patent. Patented July 5, 1921.

Application filed December 6, 1920. Serial No. 428,688.

To all whom it may concern:

Be it known that I, JESSE W. CALHOON, a citizen of the United States, and resident of Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Shipping-Car Ventilators; and I do hereby declare that the following is a full, clear, and exact description thereof.

This invention relates to a new and improved ventilator and more especially to one which is adapted to be placed in a freight car or bin for the purpose of providing a space underneath the grain, vegetables or other material stored therein.

An object of the invention is to provide a device of this kind which may be readily put in place, and which may be adjusted to fit containers of different sizes.

Another object of the invention is to provide a device which may be conveniently folded up so as to be readily handled when not in use.

In describing my invention, reference will be had to the accompanying drawings, in which:

Figure 1 is a vertical transverse section of the device as applied to a box car.

Fig. 2 is a side elevation with parts broken away in order to better illustrate the device.

Fig. 3 is an end elevation.

Fig. 4 is a sectional detail on the line 4—4 of Fig. 3.

Fig. 5 is a sectional detail on the line 5—5 of Fig. 3, and

Fig. 6 is a sectional detail on the line 6—6 of Fig. 1.

The device, as shown, is made up of sections, each section comprising two rectangular frames 10 and 11, hinged together at 12 as shown in Fig. 1. The upper and lower sides of the frame are connected by the braces 13, 14, and 15. The space between the frame members is covered by the foraminous material 16. The lower frame members are provided with flanges 17 and 18, adapted to rest upon the floor 19.

Within the angles formed by the flanges 17 and 18, are pivoted one or more hooks 20 and 21, which engage the eyes 22 and 23 on the bars 24 and 25 which extend longitudinally on the inner sides of the frame members. Each of the lower angular frame members is provided with one or more ears 26, to each of which is pivoted a hollow rod 27 within which telescopes the rod 28, the same being held in a desired position by the set screw 29. To the outer end of the rod 28 is pivoted the rod 32, having at its outer end a hook 30 which bears against the side 31 of the car.

End members 33 and 34 are hinged to the side members as shown at 35 in Fig. 4, and are secured together by the bolt 36 as shown in Figs. 3 and 5. Other sections as shown at 37, may be provided and attached as shown at 38 and 39 in Fig. 2.

It will be seen that my device may be applied to a car or bin of any width, and as many sections as may be necessary may be used to provide a ventilator of any length desired.

I claim as my invention:

1. A ventilating device comprising two foraminous side members hinged together and provided at their outer edges with flanges adapted to rest upon the floor, and rods pivotally connected to said outer edges to brace the same against the sides of the container in which the ventilator is placed.

2. A ventilating device comprising two foraminous side members hinged together and provided at their outer edges with flanges adapted to rest upon the floor, means including hooks and eyes for holding said members at the desired angle to each other, and rods pivotally connected to said outer edges to brace the same against the sides of the container in which the ventilator is placed.

3. A ventilating device comprising two foraminous side members hinged together and provided at their outer edges with flanges adapted to rest upon the floor, means including hooks and eyes for holding said members at the desired angle to each other, and rods pivotally connected to said outer edges to brace the same against the sides of the container in which the ventilator is placed, said rods being adjustable in length to fit containers of different sizes.

4. A ventilating device comprising two foraminous side members hinged together and provided at their outer edges with flanges adapted to rest upon the floor, means including hooks and eyes for holding said members at the desired angle to each other, rods pivotally connected to said outer edges to brace the same against the sides of the container in which the ventilator is placed, said rods being adjustable in length to fit

containers of different sizes, and said ventilator being separable longitudinally into a plurality of sections.

5. A ventilating device comprising two foraminous side members hinged together and provided at their outer edges with flanges adapted to rest upon the floor, means including hooks and eyes for holding said members at the desired angle to each other, rods pivotally connected to said outer edges to brace the same against the sides of the container in which the ventilator is placed, said rods being adjustable in length to fit containers of different sizes, said ventilator being separable longitudinally into a plurality of sections, end members hinged to the side members, and means to secure said end members to close the space between said side members.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee, and State of Wisconsin.

JESSE W. CALHOON.