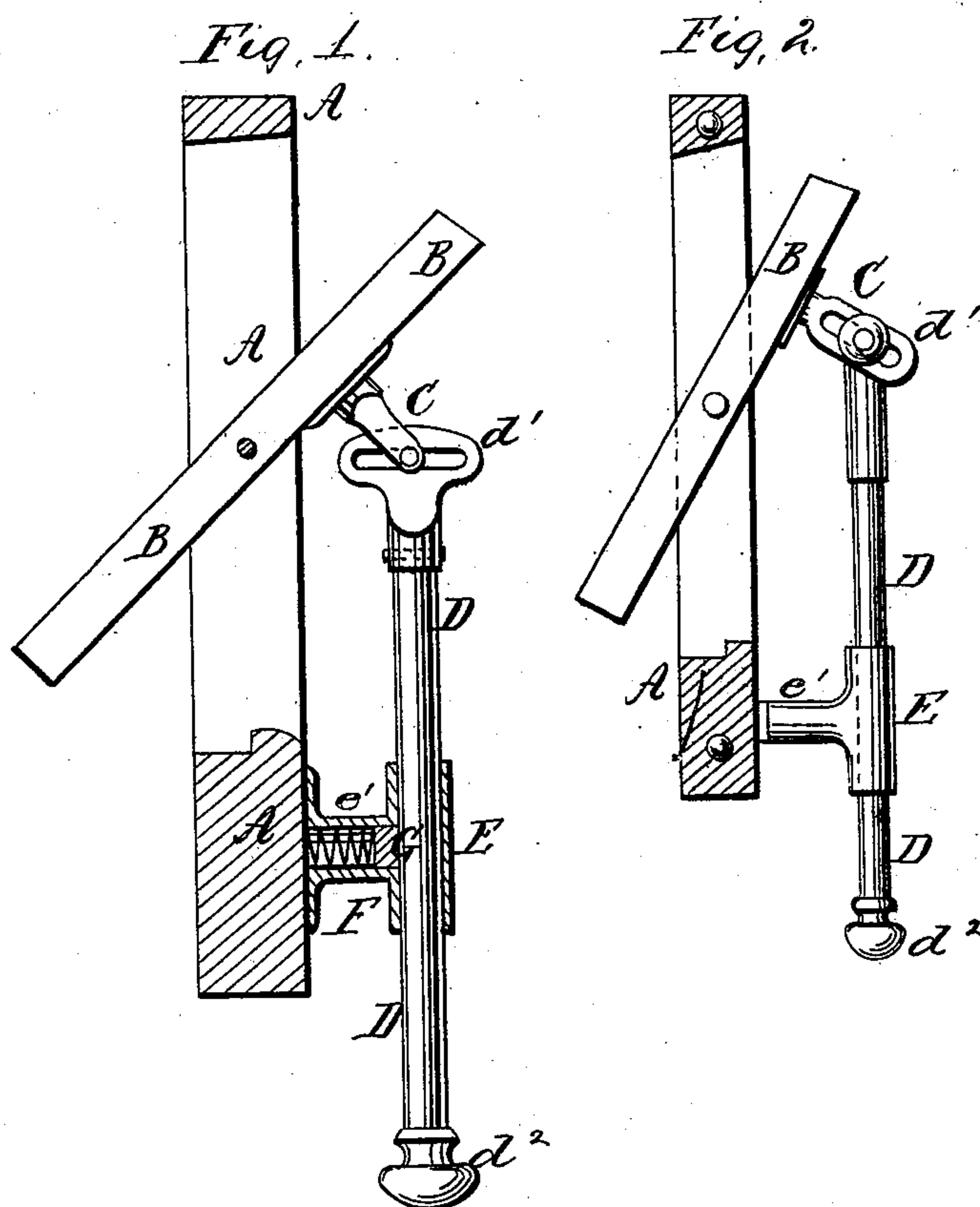


Stickney & M^c Gee,

Car Ventilator,

N^o 85,143.

Patented Dec. 22, 1868.



Witnesses;
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United States Patent Office.

W. C. STICKNEY AND J. McGEE, OF STEUBENVILLE, OHIO.

Letters Patent No. 85,143, dated December 22, 1868.

DEVICE TO OPEN RAILWAY-CAR VENTILATORS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, W. C. STICKNEY and J. McGEE, of Steubenville, in the county of Jefferson, and State of Ohio, have invented a new and improved Ventilator-Opener for Cars, &c.; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figures 1 and 2 are vertical sections of a car-ventilator, to which our improved opener has been attached.

Similar letters of reference indicate corresponding parts.

Our invention has for its object to furnish an improved device, by means of which the pivoted sash, shutter, or valve of the ventilator may be opened, closed, or secured at any desired angle, conveniently and securely; and

It consists in the construction and combination of the various parts of the opener, as hereinafter more fully described.

A represents the body of the car.

B represents the sash, shutter, or valve of the ventilator, which is pivoted to the frame or body A, in the ordinary manner.

C is an arm or standard, which is securely attached to the sash B, upon or near the line of its pivots.

The T, or cross-head d^1 , of the sliding rod D, is slotted, and is securely attached to the end of the rod D, and upon the other end of said rod is formed, or to it is attached a knob or handle, d^2 , for convenience in opening our device.

The upper end of the rod D is pivoted to the outer or free end of the arm or standard C, by a pivoting-

pin and slot, said slot being formed either in the said outer or free end of the arm or standard C, or in the upper end of the rod D, or in the T, or cross-head d^1 , of the sliding rod D, as shown in figs. 1 and 2.

The rod D passes through and slides longitudinally in the thimble E, the standards or shank e^1 of which is secured to the frame A.

By this construction, the sash B may be opened or closed fully, or to any desired angle, by simply operating the sliding rod D.

In the case of cars, or where the device is subject to constant wear, it is necessary that the rod D should be secured, so that it may not work or slip downward, and thus close the ventilator.

To prevent this, the standard or shank e^1 , of the thimble E, is made hollow, and in the recess thus formed is placed a coiled-wire spring, F, and a friction-block, G, or their equivalent, which said block G is forced against the rod D by the elasticity of the spring F, so as to hold the said rod securely in any position in which it may be placed.

Having thus described our invention,

We claim as new, and desire to secure by Letters Patent—

The thimble E, hollow shank e^1 , spring F, and friction-block G, and the vertically-sliding rod D, having the slotted T-head d^1 , in combination with the pivoted sash B, and frame A, arranged and operating as described for the purpose specified.

W. C. STICKNEY.
J. McGEE.

Witnesses:

J. J. LAWLER,
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