

No. 796,914.

PATENTED AUG. 8, 1905.

W. H. JARDINE.
VENTILATOR.

APPLICATION FILED MAR. 13, 1905.

Fig. 1.

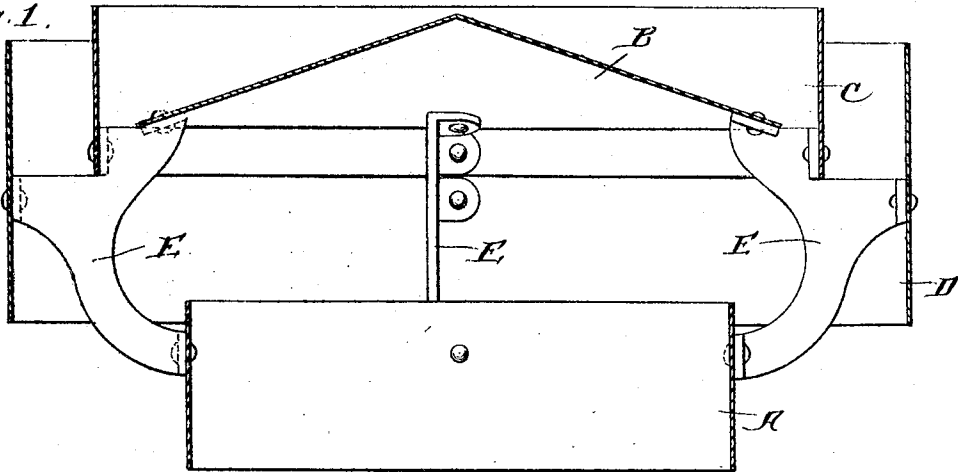
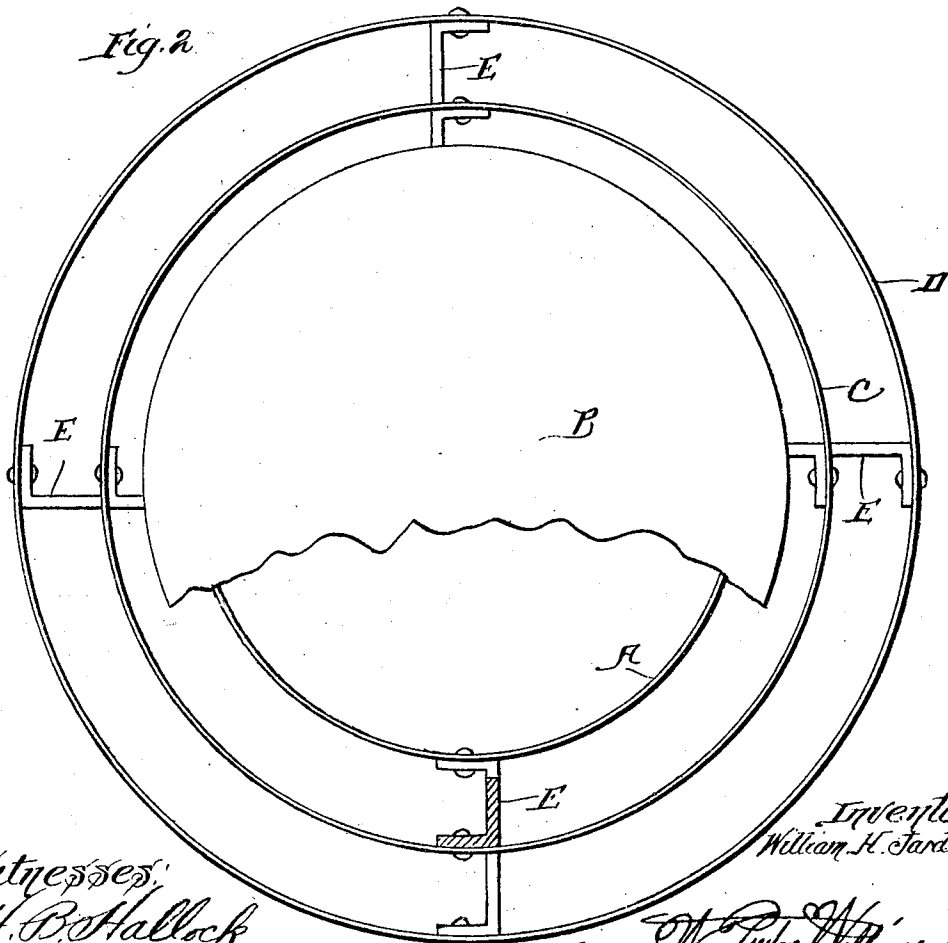


Fig. 2.



Witnesses:
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By *W. P. [Signature]* Attorney

UNITED STATES PATENT OFFICE.

WILLIAM H. JARDINE, OF PHILADELPHIA, PENNSYLVANIA.

VENTILATOR.

No. 736,914.

Specification of Letters Patent.

Patented Aug. 8, 1905.

Application filed March 13, 1905. Serial No. 249,715.

To all whom it may concern:

Be it known that I, WILLIAM H. JARDINE, a citizen of the United States, residing at Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented a certain new and useful Improvement in Ventilators, of which the following is a specification.

My invention relates to a new and useful improvement in ventilators, and has for its object to provide a simple, cheap, and efficient ventilator which will prevent the least possible obstruction to the outcoming air and at the same time be so constructed as to prevent rain, snow, or sleet beating in through the ventilating-shaft.

With these ends in view this invention consists in the details of construction and combination of elements hereinafter set forth, and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, the construction and operation will now be described in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a cross-section through my improved ventilator; Fig. 2, a plan view of the ventilator, a portion of the conical cap being broken away to show the parts below.

A represents a circular sleeve adapted to fit around or into the ventilating-shaft. B is a conical cap located centrally over the sleeve A, the periphery of the cap extending a considerable distance beyond the periphery of the sleeve A, so that any water dropping from the cap will flow outside of the sleeve. C is a circular band surrounding the cap B at a distance therefrom, the lower end of the sleeve coming below the lower edge of the cap and the upper edge of the sleeve C being at such a height that no matter at what angle the rain or sleet comes from it will strike the cap or pass outside of the sleeve A, and therefore cannot enter the ventilating-shaft. D is a circular band surrounding the band C at a distance therefrom, the lower edge of the band D coming below the upper edge of the sleeve A and the upper edge of the band D being at such a height that this upper edge of the band D and lower edge of the band C will operate in conjunction to prevent any rain, sleet, &c., beating into the ventilating-shaft no matter at what angle the rain or sleet may be falling. These various parts of the ventilator can be supported in any suitable manner, shown in the drawings as by means of supports E—

four in number—said supports E being secured at their lower ends to the sleeve A and the other parts being fastened to the supports, so that the whole structure is supported from the sleeve A.

It is a well-known fact that the best form of a ventilator is an open shaft without any covering whatsoever; but of course this is an impossibility on account of its lack of protection against the elements. Therefore I have invented this ventilator, which is so constructed as to present the least possible amount of obstruction to the outflowing air and at the same time protect the shaft against the elements. It will be seen that the air can flow freely in a vertical direction without any obstruction whatsoever between the band C and periphery of the cap B and also between the two bands C and D. In most of the other forms of ordinary ventilators a frustum of a cone is applied to the ventilator besides the conical cap, and the inclined surface of this frustum of a cone tends to prevent the free vertical escape of the air. Another advantage of my invention is that the parts of the ventilator can all be easily made on simple machinery, and as three of the parts are simply bands they can be made at an exceedingly small cost. Therefore I have provided not only an efficient and durable ventilator, but one that can be manufactured at a comparatively small cost.

I do not wish to be limited to the exact construction here shown, as slight modifications could be made without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is—

1. In a ventilator, a sleeve or band adapted to fit into or around the ventilating-shaft, a cap arranged over and at a distance above said sleeve, the diameter of the cap being greater than the diameter of the sleeve, a band surrounding the cap and arranged at a distance therefrom, a second band surrounding the first-named band and at a distance therefrom, the lower edge of the outside band being lower than the upper edge of the sleeve, and means for supporting the various parts in their proper position, as specified.

2. In combination in a ventilator, a sleeve A adapted to fit into or around the ventilating-shaft, a conical-shaped cap B arranged over and at a distance above the sleeve, the diameter of the cap being greater than the diameter of the sleeve, a band C surrounding

the cap at a distance therefrom, a band D surrounding the band C at a distance therefrom, the lower edge of the outside band being lower than the upper edge of the sleeve, the band C extending to such a height that the line drawn from the inner periphery of the upper edge of the band C to the inner periphery of the upper edge of the sleeve A will be intercepted by the cap, the band D extending to such a height that the line drawn from the upper edge of the band D to the upper edge of the sleeve A at their peripheries

will be intercepted by the band C, and supports secured at their lower ends to the sleeve, the other parts being secured to said supports, as and for the purpose specified.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

WILLIAM H. JARDINE.

Witnesses:

MARY E. HAMER,

L. W. MORRISON.