F. G. DURBIN.

HAT VENTILATOR.

APPLICATION FILED NOV. 6, 1912.

1,066,890. Patented July 8, 1913.

Fig. 1.

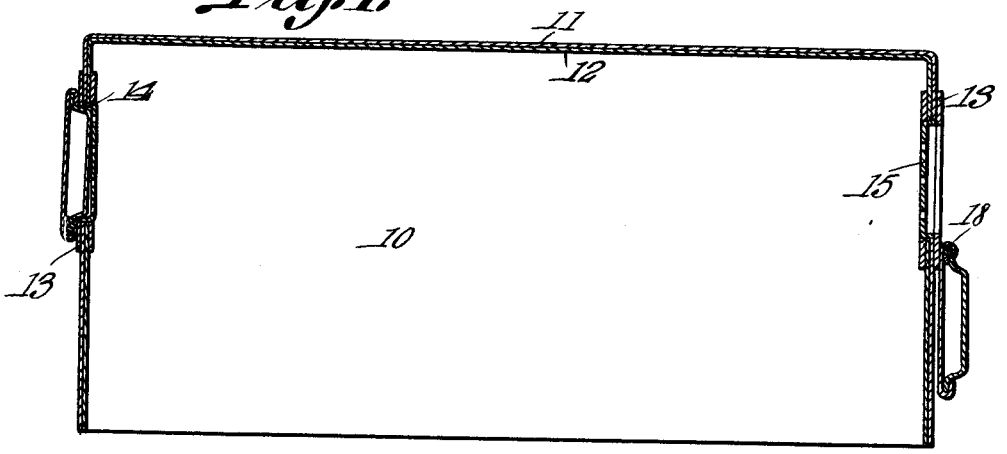


Fig. 3.

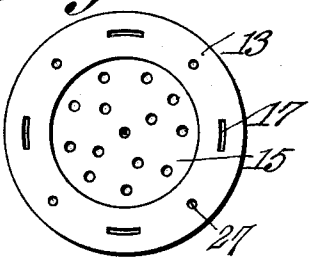


Fig. 4.

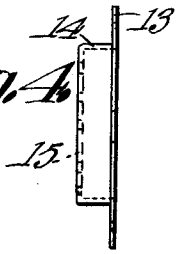


Fig. 2.

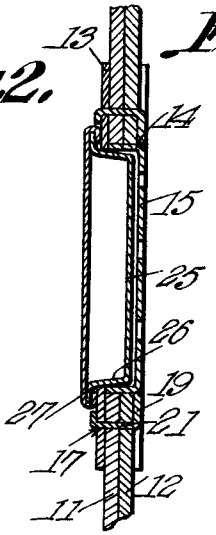


Fig. 5.

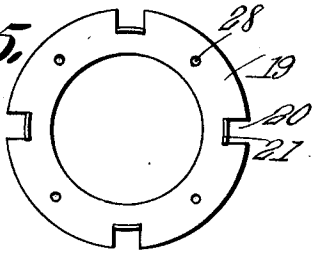
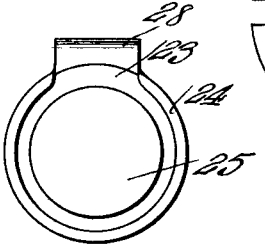


Fig. 6.



Witnesses

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HAT-VENTILATOR.

1,066,890. Specification of Letters Patent. Patented July 8, 1913.

Application filed November 6, 1912. Serial No. 729,891.

To all whom it may concern:

Be it known that I, FREDERICK G. DURBIN, a citizen of the United States, residing at Plymouth, in the county of Luzerne and State of Pennsylvania, have invented a new and useful Hat-Ventilator, of which the following is a specification.

This invention relates to hat ventilators.

The object of the invention is to provide a novel article of this character which will be adapted to withstand hard usage such as will be received in hat ventilators upon miners' hats.

With the above and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the drawings accompanying this specification and forming a part thereof Figure 1 is a sectional view of a hat having two of my improved ventilators attached thereto. Fig. 2 is an enlarged sectional view of one of my improved ventilators. Figs. 3 and 4 are front and side views of the outer member of my improved ventilator. Fig. 5 is a plan view of the attaching member. Fig. 6 is a plan view of the ventilator door.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 10 is a miner's hat and is formed with the usual canvas portion 11 and the lining 12. Round holes are cut therein and into these holes are placed the metallic ventilators. These ventilators comprise a body portion, an attachment member, and a lid or closing flap.

The body portion is formed with an annular flange 13 having a lowered cup-shaped portion with side walls 14 and a reticulated foraminous screen bottom 15. In order that this member may be held securely in position upon the outer portion of the hat, it is provided with slots 17 into which are inserted flaps 21 of the attaching member 19. The lining and canvas cover are thereby gripped between the two annular flanges 13 and 19. The lugs 21 are formed integral with the member 19 as at 20 by slitting the annular flange and bending the resulting flaps upwardly. These flaps are driven through the walls of the hat and extend through the slots 18 after which they are bent over as at 22 to thereby clamp the flanges in spaced relation. The two flanges 12 and 19 may be riveted together in conjunction with the slots and lugs as shown in which case the flanges would be provided with the rivet holes 27 and 28 as indicated in Figs. 3 and 5.

The lid adapted to close the ventilator is formed of two spaced plates 23, 25. The plate 23 is provided with an overlapping edge 24, beneath which and held therebetween is the out-lying flange 27 of the side walls 26, which walls are formed integral with the bottom 25. Each side wall 26 is slightly inclined so that the lid may be wedged into and engaged by the cup-shaped portion 14—15. An extension 28 is formed integral with the plate 23 and is circled upon itself to form a hinged connection with a bar 18, which bar is soldered to the flange 13.

In Fig. 1 I have shown the ventilator in position and attached to, a miner's hat and it is to be noted in this connection that the ventilators have been applied to the hat with the hinged connections 18 at the lower end of the ventilator hole so that the lid opens outwardly and downwardly. The normal tendency therefore of the lid will be to remain in an open position having once acquired that position. This position is the one in which the lid will be kept during a majority of the time the hat is in usage. By forming the lid with spaced plates as shown, a light but substantial construction is obtained. The lid will remain in a closed position due to a certain resiliency of the side walls thereof contacting with and lying within the cup-shaped portion hereinbefore mentioned in the body portion. The attaching member although lying upon the inner side of the hat will not contact with the wearer's head and furthermore these attaching members will present a neat and finished appearance in which the rough edges of the holes in the cap will be rendered invisible.

I have found that in the rough usage which such an article as I have described will receive in a miner's hat, it is necessary that the article be of rugged and substantial construction, will not easily get out of order, and furthermore which may be readily

cleaned. These advantages I have embodied in my improved construction.

Having thus fully disclosed the construction and operation of my improved hat ventilator, what I claim to be new and original with me is:—

In a hat ventilator, the combination of an annular flange, a foraminous screen rigidly secured thereto and spaced a distance therefrom, a lid comprising spaced plates hingedly secured to the said annular flange and adapted to extend within the opening therein and to resiliently engage the side walls thereof, said hinged lid adapted to open outwardly, and a second annular flange similar to the first mentioned annular flange, and means for securing the two said flanges together and to grip the side walls of a hat therebetween.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

FREDERICK G. DURBIN.

Witnesses:

HERBERT MITCHELL,

THOMAS MOORE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."