W. F. Warburton,

Ventilator.

No. 109,473 Patented Nov. 22. 1870.

Fig. 1

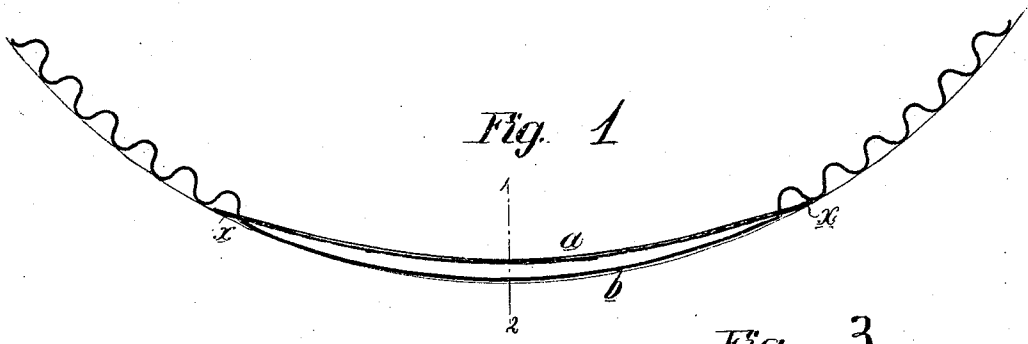


Fig. 2

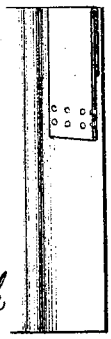


Fig. 3

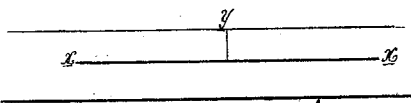
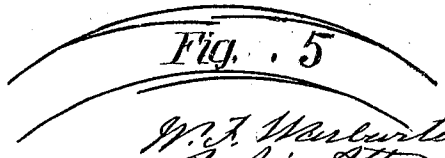


Fig. 4

Fig. 5



Witnesses { Harry Smith
Thos McElvain

W. F. Warburton
By his Attys
Dewson & Low

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

United States Patent Office.

WILLIAM F. WARBURTON, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 109.473, dated November 22, 1870.

IMPROVEMENT IN VENTILATORS FOR HATS.

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

I, WILLIAM F. WARBURTON, of Philadelphia, county of Philadelphia, State of Pennsylvania, have invented an Improvement in Ventilators for Hats, of which the following is a specification.

Nature and Object of the Invention.

My invention relates to hat-bands, with which are combined flexible strips, so arranged as to leave a crescent-shaped space for the passage of air at the front of the hat; and

My invention consists in certain improvements in the construction and arrangement of such bands and strips, whereby they are rendered less expensive and the free passage of air to the forehead of the wearer is insured.

Description of the Accompanying Drawing.

Figure 1 is an edge-view of the band, illustrating a feature of my invention.

Figure 2 is a vertical section, on the line 1 2, fig. 1; and

Figures 3, 4, and 5, views illustrating another feature of my invention.

General Description.

In fig. 1, *b* is a sweat-band, which is illustrated as combined with the flexible strip *a*, for which Letters Patent were granted me on the 11th day of December, A. D. 1860, reissued September 8, 1863; this strip, which may be made of any suitable material, being perforated, connected to the sweat-band or to the hat, or both, at the points *x x*, where the corrugations terminate, the sweat-band itself being plain between these points, and an open crescent-shaped space intervening between the sweat-band and elastic strip, so that the latter will accommodate itself to the wearer's head, as described in my aforesaid reissued patent.

The elastic strip may be made from and constitute a part of the sweat-band in the manner illustrated in figs. 3 and 4.

In this case, the sweat-band is cut between the points *x x*, midway or thereabout between its upper and lower edge, and the upper portion of the band thus cut is severed at *y*, and the ends of the severed pieces are made to overlap each other, and are secured together so as to form the desired elastic strip, (see fig. 4,) or the strip may be severed, overlapped and secured as shown in fig. 5, so that the joint may not occur where the prominent part of the forehead fits in the hat.

I prefer to secure the ends of the flexible strip to the hat, although the strip itself is outside the sweat-band; the strip, being much narrower than the band, covers but little of the forehead, and this little is exposed to the cool air owing to the perforations; whereas, by the usual plan of arranging the strip inside the sweat-band, the latter must cover a large surface of the forehead.

Claims.

1. The combination of a sweat-band with a flexible elastic strip *a*, arranged outside the band for the purpose described.

2. A hat-band cut longitudinally, and contracted in length at one side of said cut, substantially as and for the purpose described.

3. The flexible strip *a*, secured to the hat and extending through vertical slits *x x* in the hat-band, substantially as described.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

WM. F. WARBURTON.

Witnesses:
JNO. B. HARDING,
FRANK B. RICHARDS.