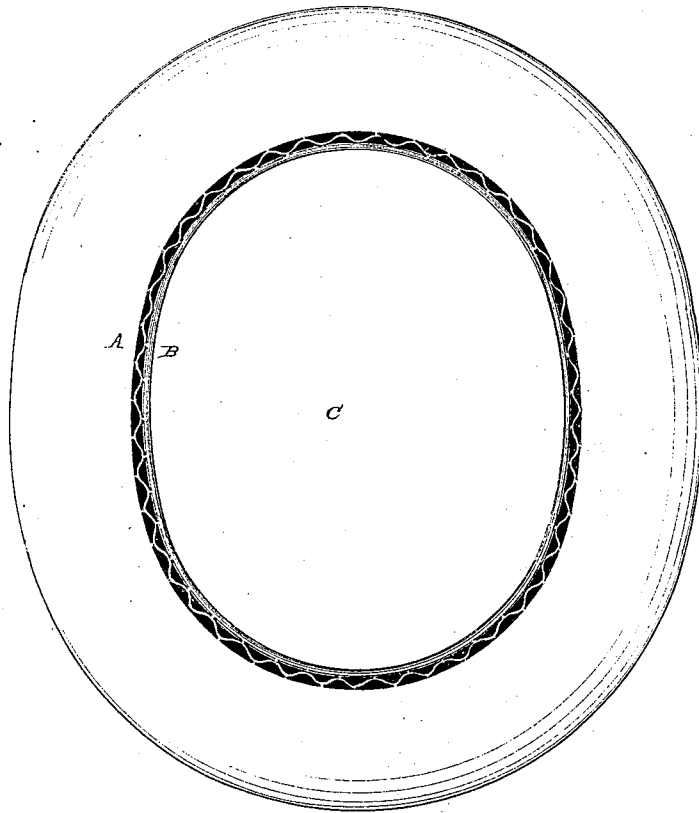


*S. Beatty,*  
*Ventilator.*

*No. 103,703.*

*Patented. May 31, 1870.*

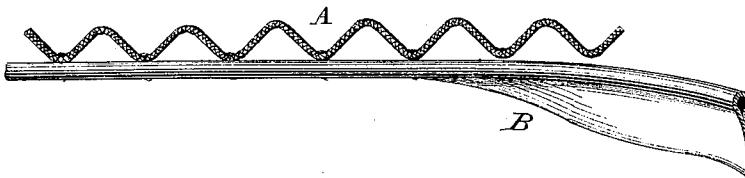
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Witnesses:*

*L. Hailer*  
*Phil. S. Dodge*

*Inventor*  
*Samuel Beatty,*  
*by Dodge Messrs.*  
*his attys.*

# United States Patent Office.

SAMUEL BEATTY, OF NORWALK, CONNECTICUT.

Letters Patent No. 103,703, dated May 31, 1870.

## IMPROVEMENT IN VENTILATORS FOR HATS.

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

### To all whom it may concern :

Be it known that I, SAMUEL BEATTY, of Norwalk, in the county of Fairfield and State of Connecticut, have invented certain Improvements in Hat-Ventilators, of which the following is a specification, reference being had to the accompanying drawing.

My invention relates to providing hats with ventilators, and

The invention consists in constructing the ventilator of a flattened, perforated, corrugated wire, as hereinafter explained.

In the drawing—

Figure 1 is a bottom plan view of a hat, with the ventilator applied.

Figure 2 is a perspective view of a strip of the wire in its various stages of being prepared for a hat-ventilator.

Figure 3 is an edge view of the wire, attached to a leather or sweat-band, the wire being represented enlarged.

The general idea of this ventilator is similar to that described in the patent heretofore issued to J. P. Beatty, under date of March 23, 1869.

In constructing by improved ventilator, I provide a flattened wire, A, similar to that used in the manufacture of hoop-skirts, which wire is then in the condition represented by the part *a* of fig. 2.

I then perforate this wire, by means of a punch-press, or other suitable machinery, forming therein a series of elongated holes, as shown by the part marked *b* of fig. 2.

The wire, after being perforated, is then covered with thread, which is woven or braided thereon, as is customary in covering hoop-skirt wire, and as repre-

mented by the portion marked *d* of fig. 2. After being thus prepared, it is ready for use.

In forming a ventilator for hats it is then corrugated transversely, as represented by the parts marked *c d* of fig. 2, after which it is sewed fast to a sweat, B, as represented in fig. 3, in which it is shown enlarged, in order to represent it more clearly.

The sweat, with the corrugated wire thus attached, is then sewed fast in the hat, as represented in fig. 1, and as described in the patent granted to J. P. Beatty, hereinbefore referred to.

By this method of preparing the wire I am enabled to produce a very light and pliable ventilator, and one that can be easily and cheaply secured in place. It is also much lighter, and, by means of the perforations, it can be sewed to the sweat by stitching through the holes, and, at the same time, more or less perspiration may find its way through the perforations, thus tending to keep the head cool.

By bending it so as to cause the bend to occur at the center of the elongated perforations, the surface contact with the head is reduced in extent just in proportion to the width of the hole. It thus forms a very light, durable, and elastic ventilator.

Having thus described my invention,

What I claim is—

A hat-ventilator, consisting of a strip of flattened, perforated, and corrugated wire, constructed and arranged substantially as described.

SAMUEL BEATTY.

Witnesses:

C. T. CORNWALL,  
EDWD. P. WEED.