H. Curtis & A. Tufts.

Hat Ventilator.

No. 35672. Patented Jun. 24. 1862

Fig. 1.

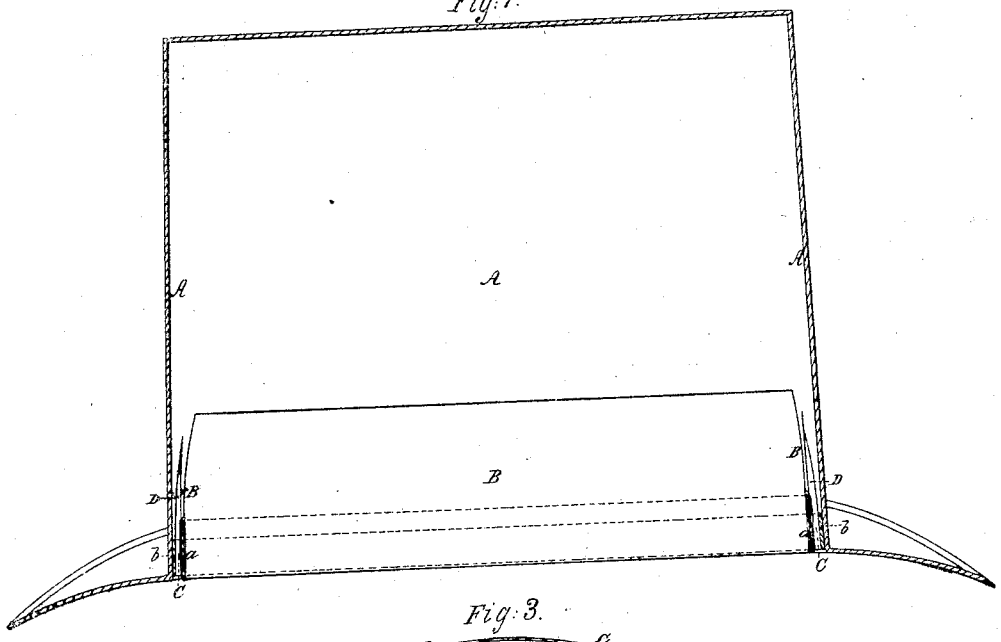


Fig. 3.

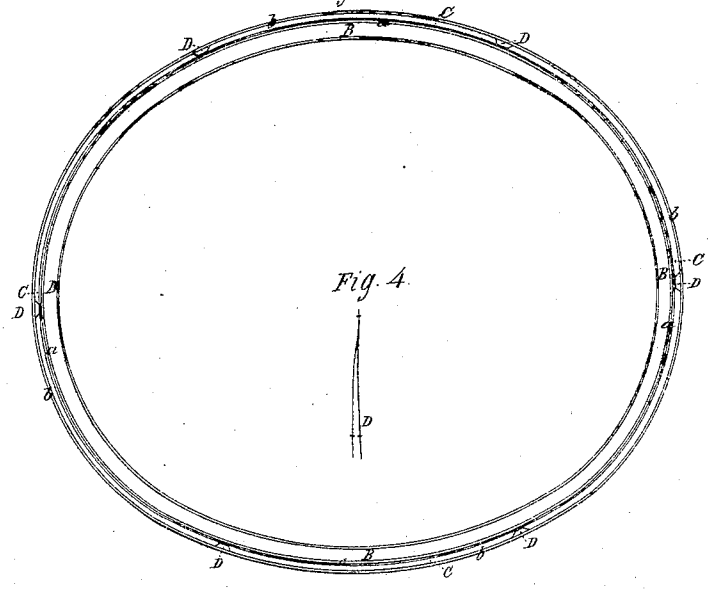
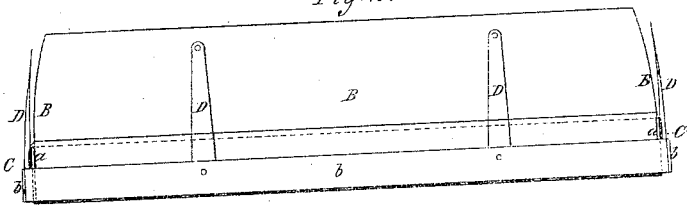


Fig. 4.

Fig. 2.



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UNITED STATES PATENT OFFICE.

HERBERT CURTIS AND ALFRED TUFTS, OF CHARLESTOWN, MASSACHUSETTS.

IMPROVEMENT IN SWEAT-LEATHER VENTILATORS FOR HATS.

Specification forming part of Letters Patent No. **35,672**, dated June 24, 1862.

To all whom it may concern:

Be it known that we, HERBERT CURTIS and ALFRED TUFTS, citizens of the United States of America, and residents of Charlestown, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Hats; and we do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a vertical section of a hat with our invention applied to it. Fig. 2 is a side view, and Fig. 3 a lower edge view, of the said invention.

The nature of the invention consists in the combination and arrangement of a flexile annulus or thin metallic hoop and a series of springs with a hat-body, its sweat-band, and an air-ventilating space between it and such band; also, in the combination of a secondary or holding hoop or annulus with the series of springs, the flexile annulus, and the sweat-band to be applied to a hat-body, and a ventilating-space arranged therein, substantially as hereinafter explained.

The object of our invention is not only to preserve the ventilating air-space, but to enable the sweat-band to adjust itself to the conformation of the head of the wearer of the hat.

In the drawings, Fig. 1, A denotes the body of a hat, while B is the sweat-band thereof, there being a ventilating air-space, C, arranged between the two and extending entirely around the inner surface of the hat-body, the said space being open at top as well as at bottom.

The lower part of the sweat-band is made to encompass a thin flexile hoop, band, or annulus, *a*, made of spring-steel, to the outer surface of which the lower ends or parts of the inner legs of a series of thin steel springs, D, are riveted or otherwise properly attached. An edge view of one of these springs is given in Fig. 4, which exhibits the spring as having a shape approximating to that of a letter **V** in an inverted position. These springs are arranged within the air-space C, and have their external legs riveted or otherwise properly fastened at or near their lower ends directly to the hat-body in case the latter be made sufficiently stiff for the purpose; but should the hat-body be thin and a very flexile one we prefer to employ a secondary hoop or annulus, *b*, which is made of a diameter somewhat greater than that of the annulus *a*, and so as to enable the said hoop *b* to fit closely into the open end of the hat-body. To this secondary annulus *b* the lower parts of the outer legs of the several springs are to be riveted or fastened. Generally speaking, about six of these springs will suffice for a hat of a medium size, they being arranged at equal or about equal distances apart in the space C.

The series of springs and the hoop or annulus *a*, or the latter and the annulus *b*, serve to support the sweat-band or head-lining B within and connect it to the hat. They also operate to preserve the ventilating-passage C, as well as to facilitate the adaptation of the sweat-band to the head of a person while wearing the hat.

We do not claim a hat constructed with an air ventilating-space arranged between its body and sweat-band whether such space be either wholly or partially open at its lower part.

We claim as our invention—

1. The combination and arrangement, substantially as described, of a flexile annulus or thin metallic hoop, *a*, and a series of springs, D, with the sweat-band B and an air ventilating-space, C, the whole being for the purpose or purposes as specified.

2. The combination of the secondary or holding hoop or annulus *b* with the series of springs D, the flexile annulus *a*, and the sweat-band B, to be applied within a hat-body, and with a ventilating or air space, C, between such body and band, substantially as specified.

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Witnesses:
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