

No. 645,783.

S. M. BLUMENFIELD.  
APPAREL CAP.

Patented Mar. 20, 1900.

(Application filed Nov. 18, 1899.)

(No Model.)

Fig. 1.

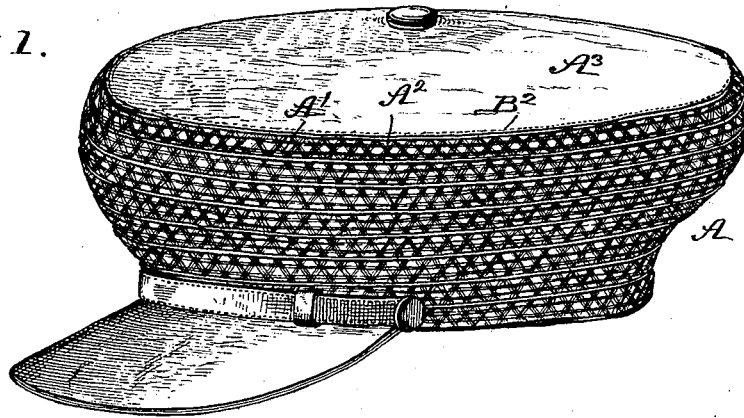


Fig. 2.

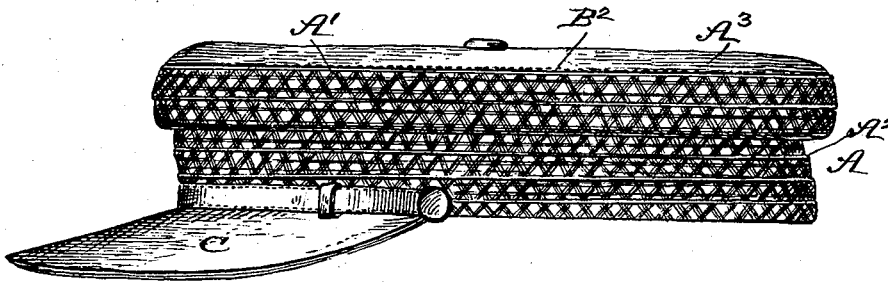
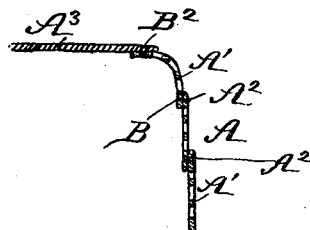


Fig. 3.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

SAMUEL M. BLUMENFIELD, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF  
TO SAMUEL COHEN, OF SAME PLACE.

## APPAREL-CAP.

SPECIFICATION forming part of Letters Patent No. 645,783, dated March 20, 1900.

Application filed November 18, 1899. Serial No. 737,452. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL M. BLUMENFIELD, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Cap, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved cap more especially designed for the use of bicycle-riders and other persons and arranged to permit a thorough circulation of air through the cap to keep the head, and especially the forehead, of the wearer of the cap in a perfectly-cool condition.

Another object of the invention is to provide a cap which, while possessing the desired stiffness to maintain its proper shape, yet will be so pliable that it will readily conform to the shape of the head of the wearer and can be readily folded, so as to be carried in the pocket.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then pointed out in the claim.

A practical embodiment of my invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the improvement. Fig. 2 is a similar view showing the cap in a different position, and Fig. 3 is a transverse section on line 1 1 of Fig. 1.

The improved cap has its sides and a portion of the crown formed of a single strip A of a woven-fabric material arranged spirally and formed with a foraminated portion A' and selvedge edges A<sup>2</sup>, of which the edges of adjacent coils overlap, as plainly indicated in the drawings, the overlapping edges being fastened together by stitches B, so as to produce solid or non-perforated portions arranged spirally and alternating with the spirally-arranged foraminated portions A'.

The body of the cap is completed by securing to the uppermost coil of the strip A by stitches B<sup>2</sup> the circular piece of fabric A<sup>3</sup>, such as cloth, felt, or the like. The piece A<sup>3</sup> forms the top portion of the crown of the cap

and being non-perforated protects the head of the wearer from the rays of the sun. The cap is provided with a suitable vizor C, as shown, and the lower portions of the sides may be provided on the inside with the usual sweat-band. (Not shown.)

The spirally-arranged solid non-perforated portions A<sup>2</sup> of the cap give the desired strength and stiffness to the sides of the same to cause it to retain its shape and at the same time the cap is so pliable that the upper portion thereof may be doubled upon itself to permit the crown to assume the position shown in Fig. 2, which is its normal position. Owing to the greater portion of the body of the cap being foraminated, the outside air is free to pass to the inside of the cap and circulate around the wearer's head, thus keeping the same in a perfectly-cool condition when the cap is worn. This is especially true relatively to the forehead, as the air can pass in at the forward portion of the cap above the vizor C and keep the forehead cool, especially when the person is walking or otherwise moving in a forward direction. By thus forming the cap a thorough ventilation will be permitted and at the same time protection afforded to the head of the wearer from the sun and weather. By this construction also any desired shape can be given to the sides and crown of the cap and the cap is rendered soft and pliable, so that it will readily conform to the head of the wearer and will not become heated, like wire-netting ordinarily employed for ventilating hats and caps. The pliability of the sides and a portion of the crown of the cap also permits it to assume the position shown in Fig. 2 without injury thereto and also to be folded, so as to be carried in the pocket when desired.

I am aware of the fact that head-coverings formed of spirally-arranged strips of foraminated straw braid having the edges of the adjacent coils overlapped and secured together are old and well known; but in my cap the strip of foraminated material is woven out of textile threads with very open meshes, thus forming a pliable very flexible body when secured together in the form of a cap. I thus secure all the advantages of a soft cap and at the same time complete ventilation,

advantages not possible to secure in caps made out of straw braid or wire-gauze.

Having thus described my invention, what I claim as new, and desire to secure by Letters  
5 Patent, is—

As a new article of manufacture, a cap consisting of a strip of foraminated woven fibrous material, spirally arranged and having the edges of its adjacent coils overlapped  
10 and secured together to form the sides and a portion of the crown, and a piece of fabric se-

cured at its edge to the uppermost coil of the strip and forming the top portion of the crown, as set forth.

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

SAMUEL M. BLUMENFIELD.

Witnesses:

THEO. G. HOSTER,  
EVERARD BOLTON MARSHALL.