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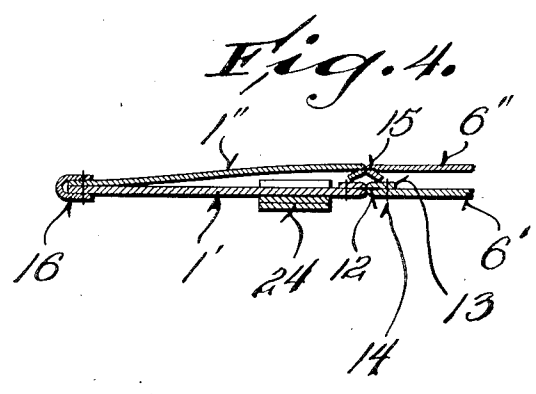
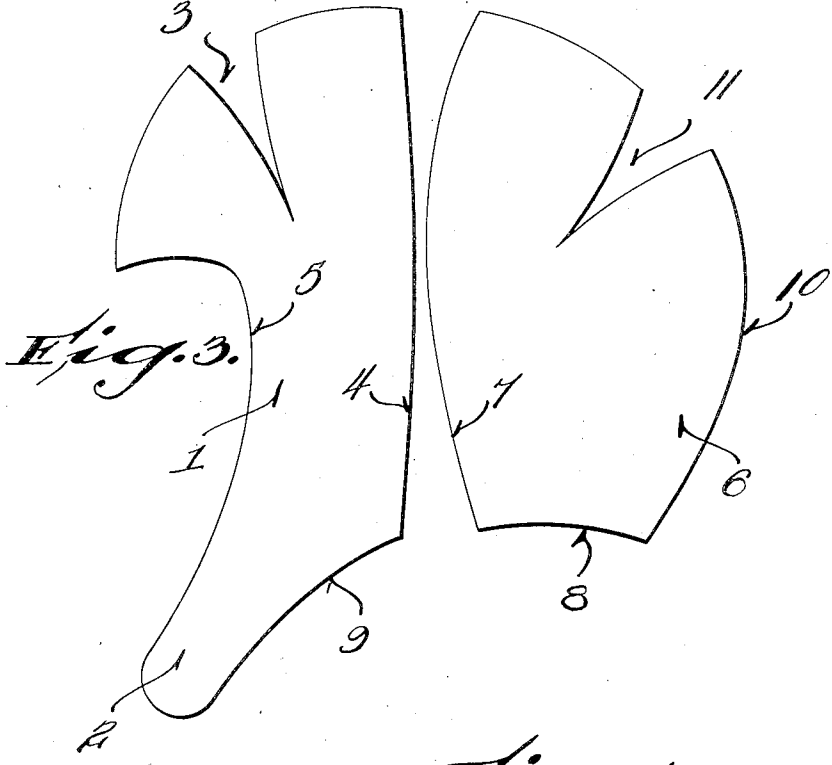
1,655,007

C. C. BOETTGE

HEADGEAR

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2 Sheets-Sheet 2



Inventor:
Charles C. Boettge
By *Wm. H. King*
Attorneys:

UNITED STATES PATENT OFFICE.

CHARLES C. BOETTGE, OF BERLIN, WISCONSIN, ASSIGNOR TO BERLIN TANNING AND MANUFACTURING COMPANY, OF BERLIN, WISCONSIN.

HEADGEAR.

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This invention relates to head gear.

Objects of this invention are to provide a novel form of helmet such as that adapted for the use of aviators which is accurately shaped due to the novel form of pattern and manner of making the helmet, which is comfortable and can be adjusted to fit the particular head upon which it is worn, and which is so constructed that provision is made for holding the straps from the goggles.

Further objects are to provide a simple form of helmet which does not require an elaborate pattern, and in which the two sides of the helmet, and the lining as well, may be cut from the same patterns.

An embodiment of the invention is shown in the accompanying drawings, in which:—

Figure 1 is an elevation of the helmet showing it in position with parts broken away.

Figure 2 is an enlarged fragmentary view of the lower portion or underlapping flap of the helmet.

Figure 3 is a view of the patterns.

Figure 4 is an enlarged sectional view on the line 4—4 of Figure 1.

Referring to the drawings, it will be seen that the helmet is formed from two patterns as indicated in Figure 3. The two sides of the helmet are duplicates and the same patterns are used in their production.

Referring to Figure 3, it will be noted that the front pattern 1 is provided with a downwardly and forwardly slanting tongue 2 and with a rounded upper part provided with a slot or notch 3. The rear edge of this pattern is slightly rounded as indicated at 4. The front edge is cut out along the line 5 to provide the face opening. The rear portion of the pattern is indicated at 6 in Figure 3 and is provided with a rounded front edge 7 adapted to be sewed to the edge 4. It is arched at its lower portion as indicated at 8 to correspond to the arch 9 of the front pattern to form the neck opening of the helmet. The other edge indicated at 10 of the pattern 6 is rounded throughout its extent and is provided with a V-shaped notch 11 in its upper portion.

In forming the helmet, the lining, and outer portion of each side are similarly cut and employ the same pattern described above. The outer portion comprises a pair of front members 1' and a pair of rear mem-

bers 6'. The lining correspondingly comprises a pair of inner front members 1 and a pair of rear inner members 6''. The front members have their juxtaposed edges secured by the line of stitching 12 as shown in Figure 4, and the edges or marginal portions 13 are turned down flat against the inner sides and secured by parallel lines of stitching 14 to provide a very flat seam. The lining has its parts secured together by means of lines of stitching 15. It has been found that when the lining is made of soft leather suitable for contact with the head of the wearer that it is not necessary to seam the intumed marginal edges adjacent the line of stitching 15. This, however, may be done if desired, although it is not shown in the drawings. The face and neck openings are finished by the binding strip 16 as shown most clearly in Figure 4. The underlapping flap 17, shown in the enlarged view Figure 2, is provided with an adjustable snap fastener 18 slidably carried by a strap 19. The ends of this strap are passed through slits 20 formed in the flap and are sewed as indicated at 21. The overlapping flap 22—see Figure 1—is provided with a snap fastener 23 cooperating with the fastener 18 so that the helmet may be adjusted to different sized heads.

In order to hold the straps from the goggles, a strap 24 is provided on each side of the helmet and has one end secured by means of the stitches 25, such ends being pressed through a slot 26, as previously described, for the strap 19. This strap is provided with a snap fastener 27 so that it may engage a corresponding snap fastener on the outer side of the helmet.

The strap 24 provides means for receiving the straps from the goggles, and thus prevents the straps from slipping upwardly or becoming detached.

It will be seen that a very simple pattern has been provided for cutting the outer and lining portions of each side of the helmet, and it will be seen further that the number of seams required for making a perfect fitting helmet are very small. For instance, in addition to the seams just described, it is merely necessary to sew the edges or marginal portions of the notches 3 and 11 together forming the seams 28 and 29, shown in Figure 1, and it is preferably to finish these seams as shown in Figure 4. The two

halves of the helmet are secured together by a seam 30 finished in the same manner as the seams shown in Figure 4.

It is well known that aviators' helmets should fit snugly about the head of the aviator, particularly at the face opening. This is accomplished by providing the adjustable neck or chin portion by means of which the helmet may be drawn into close engagement with the head of the wearer around the face opening and associated parts. This result is further secured by providing the goggle holding straps on the outer side of the helmet so that it is not necessary to have the straps pass beneath the helmet and thus interfere with its close fitting.

It is to be noted that a minimum number of patterns are required for this helmet, and that it is a simple matter to stack up the material and cut the several portions of the helmet in a rapid manner.

Further, the seaming may be very readily accomplished, and consequently, the helmets may be turned out at a small cost although

they are well made and accurately fitted to the curvature of the head.

Although the invention has been described in considerable detail, such description is intended as illustrative rather than limiting as the invention may be variously embodied and as the scope of such invention is to be determined as claimed.

I claim:

A two piece pattern for an aviator's helmet comprising a rear piece having a curved rear side and a front edge having a lesser curvature, and a front piece having a slightly curved rear side and having a downwardly and forwardly extending tongue, each of said pieces having an arched bottom edge and having V-shaped notches extending inwardly from its top edge, said front piece having a front cut out for a face opening.

In testimony that I claim the foregoing I have hereunto set my hand at Berlin, in the county of Green Lake and State of Wisconsin.

CHARLES C. BOETTGE.