July 29, 1958 R. W. PERSICO ET AL 2,844,822

CAP WITH HAVELOCK

Filed April 3, 1956

Fig. 1.

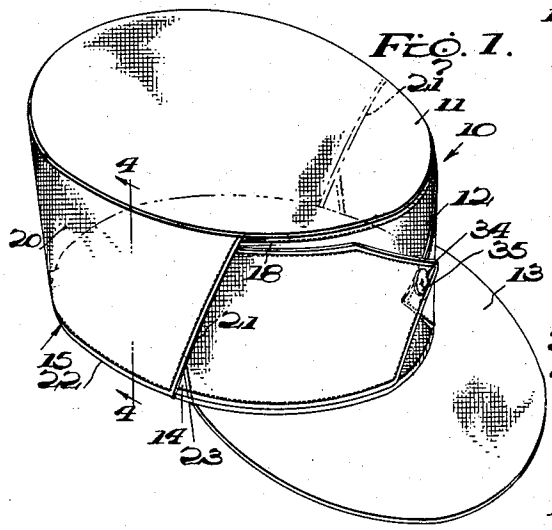


Fig. 2.

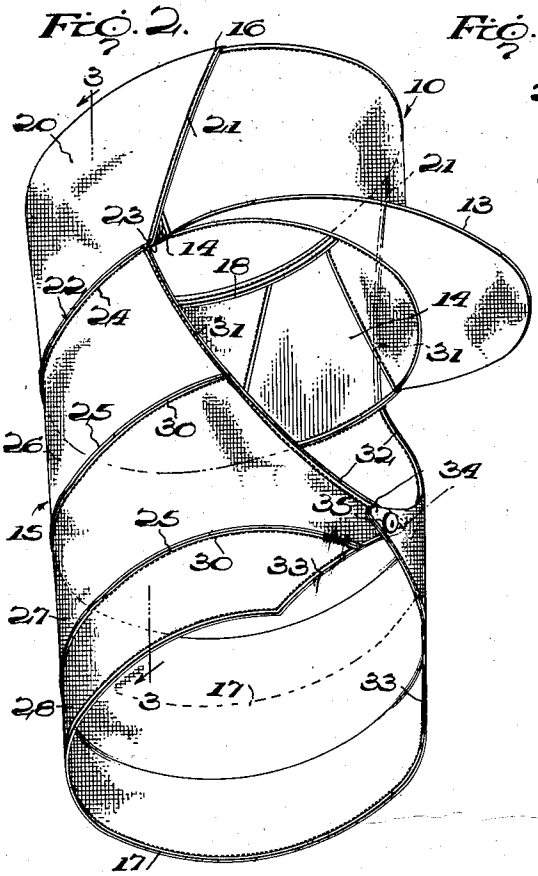


Fig. 3.

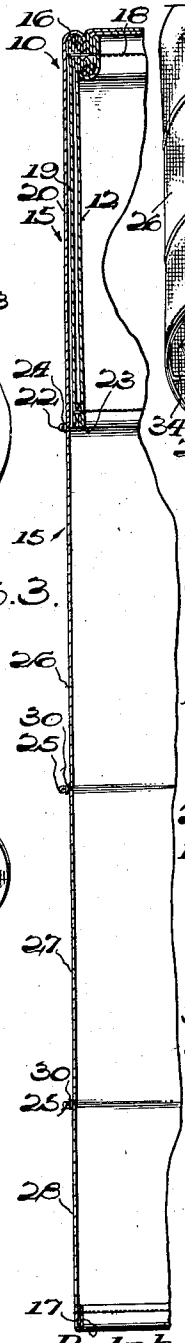


Fig. 5.

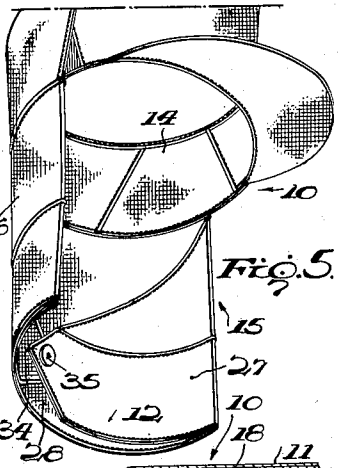
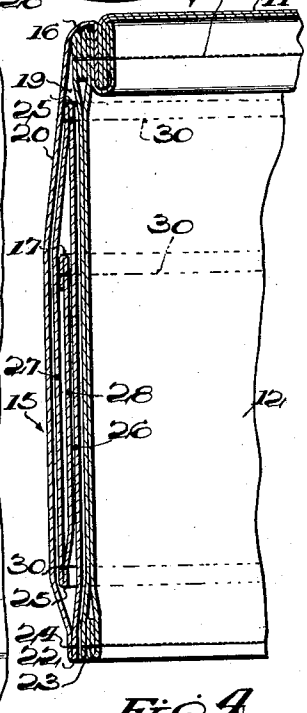


Fig. 4.



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CAP WITH HAVELOCK

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Application April 3, 1956, Serial No. 575,918

5 Claims. (Cl. 2—172)

(Granted under Title 35, U. S. Code (1952), sec. 266)

The invention described herein, if patented, may be manufactured and used by or for the Government for governmental purposes, without the payment to us of any royality thereon.

The invention relates to havelocks for head coverings such as hats, caps or the like. Havelocks depend from the head covering to protect the head, neck and shoulders of the wearer from the weather, such as the sun and rain and/or from thermal radiations from nuclear explosions, as protection against vesicant gases or the like.

Such devices are well known, particularly in tropical countries and generally comprise a separate curtain of upright semi-cylindrical shape which is detachably secured to the lower edge of the rear and sides of the cap so as to depend therefrom and enclose the rear and sides of the wearer's head, neck and shoulders but being open at the front so as to not impede his vision. When not needed, such predecessor devices are detached from the cap, folded and stored either in a pocket or in the crown of the head covering. Obviously, considerable time is needed to unfold, arrange and attach such predecessor device to the head covering when needed. Also, such an arrangement is unsatisfactory in that the havelock is easily lost whereby it is not available when needed.

With the foregoing in view, it is an object of the invention to provide an improved havelock and/or an improved combination of head covering and havelock.

A further object is to provide an improved havelock which is permanently attached to a head covering and so constructed and arranged that it provides a pocket for storing itself when it is not needed.

Other objects and advantages reside in the particular structure and design of the havelock, the structure and design of the several elements of the same, combinations and sub-combinations of such elements with themselves and/or with a head covering, all of which will be readily apparent to those skilled in the art upon reference to the attached drawing in connection with the following specification wherein the invention is shown, described and claimed.

In the drawing:

Figure 1 is a perspective view taken from above and showing a head covering having a havelock according to the invention applied thereto, the havelock being shown in the folded or stored position;

Figure 2 is a perspective view taken from below and showing the havelock in the extended or operative position;

Figure 3 is an enlarged, fragmentary, vertical sectional view taken substantially on the plane of the line 3—3 of Figure 2;

Figure 4 is a sectional view like Figure 3 but taken substantially on the plane of the line 4—4 of Figure 1, and

Figure 5 is a small scale, diagrammatic perspective view like Figure 2 but showing an alternative way of wearing the device.

Referring specifically to the drawing wherein like reference characters designate like parts in all views, 10 designates generally any suitable head covering to which the invention may be applied. In the embodiment illustrated, the head covering 10 comprises a cap which includes a crown portion which may comprise a crown piece 11, a side wall portion which may comprise the cylindrical wall 12 depending from the crown and a visor 13. Also, the side wall 12 in this species has been elasticized by two elastic inserts 14 to enable the cap to fit a plurality of head sizes. As so far described, the structure is conventional and forms no part of the invention apart from any combination or sub-combination hereinafter claimed.

The havelock according to the invention comprises an upright substantially semi-cylindrical curtain, generally designated by 15, and which may be constructed of any suitable flexible material. The curtain 15 has an upper edge 16 and a lower edge 17. Preferably, when crown and wall portions 11 and 12 are separate elements, the upper edge 16 is caught in the seam or row of stitching 18 by which the side wall 12 is connected to the crown piece 11. Thus, the curtain 15 depends from the upper edge of the side wall 12 and includes an upper panel 20 which overlies the same to provide a pocket 19 therebetween which is open at the front and bottom and which extends around the sides and rear of such side wall. The upper panel 20 has a pair of laterally spaced front edges 21 which define the front edges of the pocket 19. Preferably the elasticizing inserts 14, if present, are substantially entirely concealed by the upper panel 20.

The lower edge of the upper panel 20 is defined by a substantially horizontal crease 22 which is preferably located slightly below and parallel to the lower edge 23 of the side wall 12 of the head covering. Preferably, also, the crease 22 is permanentized by being sewed together in face-to-face relation by a line of stitching 24. Below the upper panel 20 a series of vertically spaced horizontal creases 25 define any suitable number of panels as 26, 27 and 28. Preferably each crease 25 is made a permanent crease by being sewed together by a line of stitches 30. The creases 22 and 25 provide fold lines for folding the havelock.

The curtain-providing depending panels 26, 27 and 28 each have two laterally spaced front edges as 31, 31 for the panel 26; 32, 32 for the panel 27; and 33, 33 for the lowermost panel 28. In the form of invention illustrated, the front edges of the curtain portion of the havelock are formed to provide points 34 which may be readily detachably connected together by an suitable separable fastener such as the button 35. The points 34 are best formed in the front edges 32 of the second lowest panel 27 so that the front edges 33 of the lowermost or bottom panel 28 are rearwardly and downwardly beveled. This permits the height of the curtain to be varied by folding the bottom panel 28 on its crease 25 upwardly and inwardly to underlie the superjacent panel 27, as suggested in broken lines in Figure 2. The panel 28 will remain in this position because it is slightly more than a semi-cylinder and because the crease 25 faces radially inwardly so as to resist unfolding. That is to say, the groove portion of the crease is on the inner surface of the havelock while the rib portion thereof is on the outer surface of the same. Thus, the groove portion of the crease faces the axis of the havelock or faces radially inwardly thereof.

It should be noted in this connection that all of the creases 25 and the crease 22 face radially inwardly so that the havelock is roll-folded upwardly from the bottom to the folded or stored position of Figures 1 and 4. It should be noted also, that such roll-folding is facilitated by making the panels 20, 26, 27 and 28 successively

narrower. Thus, the havelock is stored in the pocket **19** from the unfolded position of Figures 2 and 3 by first folding the lowermost panel **28** inwardly and upwardly to the broken line position of Figure 2, then the panels **27** and **28** are folded inwardly and upwardly to underlie panel **26**. Finally, the panels **26**, **27**, **28** are folded inwardly and upwardly on the crease **22** into the pocket **19** where the panels form a concentric stack. The points **34** of the front edges **33** of the panel **27** overlap in front of the side wall **12** and when connected by the separable fastener **35** serve to secure the stack of panels in the pocket **19**.

To unfold the stacked panels, it is only necessary to undo the fastener **35** and unroll the stack. Thereafter, the fastener **35** can be resecured to limit displacement of the havelock by winds or blasts. When it is unnecessary or undesirable to secure the points **34** together in front of the wearer as shown in Figure 2, the connected points and associated side portions of the panels **26**, **27** and **28** may be folded rearwardly unto the rear portions as suggested in Figure 5 so that the entire curtain portion of the havelock is disposed rearwardly of the shoulders of the wearer. This last is a cooler arrangement and would generally be used when protection from the sun only is wanted. The lower panel **28** may be folded or unfolded as desired but is preferably folded when this last arrangement is used.

It is apparent from the foregoing that the invention provides not only a novel and improved havelock but by draping it from an upper portion of the head covering a novel pocket for storing the folded havelock is provided. This arrangement not only prevents loss of the device but provides a havelock which can be quickly moved from the stored or folded position to the unfolded operative position without even removing the head covering from the head. This speed of operation is of the essence when the device is desired as a shield from thermal radiations or gases.

Moreover, while there has been shown and described what is now thought to be a preferred embodiment of the invention, it should be understood that the same is susceptible of other forms and expressions. Consequently, the invention is not to be considered as being limited to the precise structure shown and described hereinabove except as hereinafter claimed.

We claim:

1. In a cap having a substantially cylindrical side wall portion and a crown portion; the improvement comprising a havelock for said cap, said havelock having an upper edge secured to side and rear portions of said side wall portion in the region of said crown portion, said havelock being formed with a plurality of parallel horizontal creases providing fold lines, said creases defining a series of horizontal panels, there being a top panel overlying side and rear portions of said side wall portion and a plurality of depending panels, each depending panel having a height not greater than the height of said top panel, said depending panels when folded on said creases to a folded position providing a concentric series of panels between said top panel and at least the rear and sides of said side wall portion of said cap, and means for readily releasably securing all of said panels in said folded position.

2. In a cap having a substantially cylindrical side wall portion and a crown portion; the improvement comprising a havelock for said cap, said havelock comprising a substantially semi-cylindrical curtain having an upper edge secured to side and rear portions of said side wall portion in the region of said crown portion, said curtain being formed with a plurality of vertically spaced parallel creases defining a plurality of depending panels, each crease being made permanent by a line of stitching connecting adjacent panels together in face-to-face relation close to each crease, there being a top panel overlying side and rear portions of said side wall portion and a plurality of depending panels, each depending panel having a height not greater than the height of said top panel, said depending panels when folded on said creases to a folded position providing a concentric series of panels between said top panel and at least the rear and sides of said side wall portion of said cap, and means for readily releasably securing all of said panels in said folded position.

3. In a head covering having side and crown portions; the improvement comprising a havelock having an upper edge, means securing said upper edge to said head covering between said crown and side portions, said havelock comprising an upper panel coextensive in height with said side portion of said head covering but having laterally spaced front edges so as to provide a pocket open at the bottom and also open at the front on opposite sides of said head covering, a series of parallel curtain-providing panels secured to said upper panel and normally depending therefrom below said side portion of said head covering, said series of panels being foldable upon themselves and said upper panel into said pocket to a retracted position, and means for readily releasably retaining said entire series of panels in said retracted position.

4. In a head covering having side and crown positions; the improvement comprising a havelock having an upper edge, a seam connecting said upper edge of said havelock and said side portion and said crown portion together, said havelock overlying said side portion and extending below the same, a vertical series of inwardly facing permanent horizontal creases formed in said havelock and dividing the same into a plurality of horizontal panels, and said creases being spaced progressively closer together from said upper edge downwardly whereby each panel is narrower than the one next above it.

5. A havelock according to claim 4, and a horizontal line of stitching connecting each crease together.

References Cited in the file of this patent

UNITED STATES PATENTS

628,842	Pachner	July 11, 1899
822,986	Rochet	June 12, 1906
857,258	Rosenbaum	June 18, 1907
1,379,142	Wallace	May 24, 1921
2,152,678	Biaesch	Apr. 4, 1939

FOREIGN PATENTS

2,079	Great Britain	Feb. 3, 1892

UNITED STATES PATENT OFFICE

CERTIFICATE OF CORRECTION

Patent No. 2,844,822 July 29, 1958

Ralph W. Persico et al.

It is hereby certified that error appears in the printed specification of the above numbered patent requiring correction and that the said Letters Patent should read as corrected below.

Column 4, line 37, for "positions" read -- portions --.

Signed and sealed this 11th day of November 1958.

(SEAL)
Attest:

KARL H. AXLINE
Attesting Officer

ROBERT C. WATSON
Commissioner of Patents