Dec. 30, 1952 A. PROVITOLA ET AL 2,623,213

SUN HAT

Filed May 11, 1948

FIG. 1

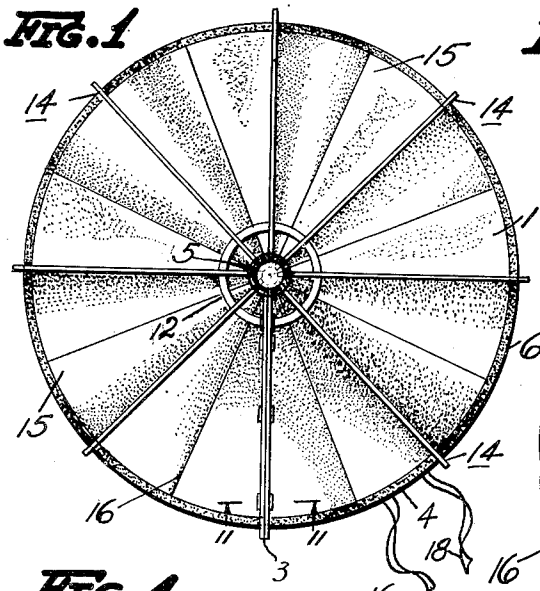


FIG. 2

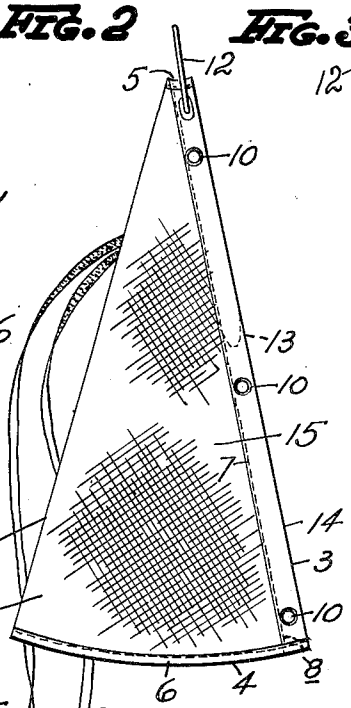


FIG. 3

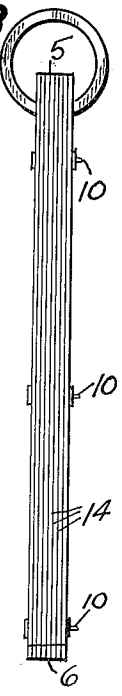


FIG. 4

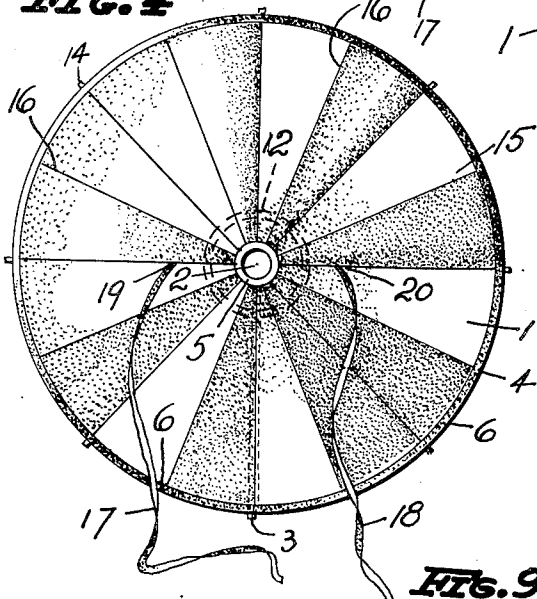


FIG. 5 FIG. 6 FIG. 7

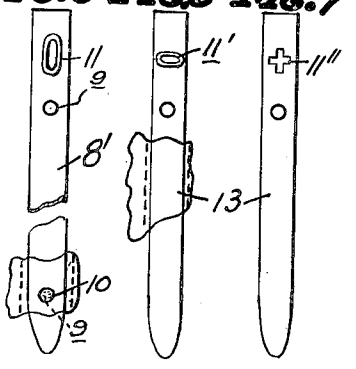


FIG. 8

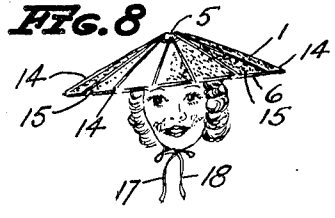


FIG. 9 FIG. 10

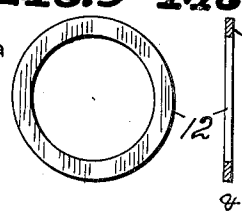
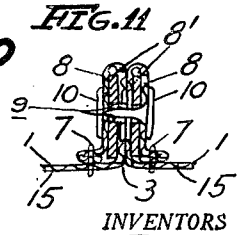


FIG. 11



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Patented Dec. 30, 1952

2,623,213

UNITED STATES PATENT OFFICE

2,623,213

SUN HAT

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Application May 11, 1948, Serial No. 26,378

8 Claims. (Cl. 2—177)

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Our invention relates particularly to a sun hat which may be folded when not being worn.

Among the purposes and objects of our invention is to provide a sun hat which is circular like a coolie hat when unfolded for use and fan like when folded.

Another object is to provide a hat having radial ribs each having a non-circular aperture to receive a ring having a non-circular cross section which will not turn in the apertured ribs or stiffening members to hold the hat in its somewhat flat shape when unfolded.

An object is to provide a hat having a plurality of radial ribs, two of the ribs having fastening means detachably securing the adjacent radial edges of the hat and when unfastened to permit the segments of the hat to be folded together.

An object is to provide a hat in which the top is divided into a plurality of segments defined by reinforcing ribs or members and foldable at each member and mid way between said members: as an accordion or fan.

Still another object is to provide a ring slidable in non-circular apertures in a plurality of segmentally disposed members or ribs and non-rotatable in said apertured ribs or stiffening members.

An object is to provide relatively stiff reinforcement members radially disposed as ribs for a hat; each member having an aperture which permits it to slide circumferentially on and around a ring and not to rotate radially on a circumferential axis within the material of which the ring is formed.

We accomplish these and other objects by the construction herein described and shown in the drawing which forms a part of this our disclosure.

In the drawing;

Fig. 1 is a top plan view of our hat.

Fig. 2 is a side elevational view of our hat when folded.

Fig. 3 is an elevational view of the edge of our hat when folded.

Fig. 4 is a bottom plan view of our hat.

Figs. 5, 6 and 7 are details of several modifications showing several shapes of apertures in the reenforcements for the ribs of our hats.

Fig. 8 is a perspective view showing the application of our hat.

Figs. 9 and 10 are details of a ring.

Fig. 11 is a section at 11—11, Fig. 1.

Collapsible or foldable hats are commonly known, particularly such as soft sports hats as well as toppers for men's wear. Sun hats for women are difficult to fold into a small size and

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are usually too large to hold their shape when on the wearer. We overcome the disadvantages of ordinary sun hats by our invention of a novel sun hat which is neat and attractive in appearance and which is quickly and easily foldable into a compact attractive unit which does not have the appearance of a hat when not in use as a hat.

We have not attempted to show all possible modifications of our invention but rather have described a preferred embodiment in detail so that one skilled in the art may more readily understand the construction. Modifications may suggest themselves after a study of this, our disclosure.

The preciseness of the detailed description and the preciseness of the drawings are not intended to limit the scope of our invention which is set forth in the appended claims.

Referring to the drawings we have shown a fabric body or cover 1 substantially circular in contour cut out 2 at the center and severed on a radial line 3 from the center to the periphery 4. The cut out center and the periphery are finished with edging 5 and 6. The hat may be folded like a fan with the reinforcing members, one upon the other, when not in use as shown particularly in Figs. 2 and 3 of the drawing.

Adjacent the severed radial edges the material of the cover is folded back upon itself and stitched at 7 at each margin thus formed to provide a hollow hem 8 to receive the stiffening member or reenforcements 8' through which the apertures 9 are spaced apart to conform to the apertures through the hollow turned over hem to receive the fasteners 10 which are preferably of the type commonly known as snap fasteners.

In addition to the apertures 9 for the fasteners 10 each reenforcement member 8' is provided with the irregular shaped aperture 11 which conforms to the cross section of the flattened material 12' of the ring 12 to prevent the member from turning radially on the ring which may freely slide circumferentially within the aperture. The aperture is shown as a rectangle or elongated slit in Fig. 5 of the drawing to conform to the rectangular cross section of the ring as shown in Fig. 10 of the drawing. The shape of the aperture and the conforming cross section of the flattened material of the ring may vary as, for example, a cross 11'' as shown in Fig. 7 or any other shape of aperture as 11' as shown in Fig. 6 for instance. The aperture and ring section combine to prevent the ring from turning within the apertured member 8' or 13 and thus prevent the hat from drooping or collapsing on the head of the wearer when the

hat is unfolded or extended as when being worn.

The members 8', which border the edges of the radial line on which the cover is severed, are not the only members which reenforce the cover a plurality of additional radial stiffening members 13 which are preferably housed within the ridges or radial folds 14 which divide the cover into a plurality of foldable segmental areas 15 each divided and reverse folded again at 16 between the ridges or folds 14, as accordion plaiting to permit the hat to be folded up as shown in Figs. 2 and 3. Each member 13 within the folds 14 is provided with an irregular aperture 11, 11', or 11'' to conform with the cross section of the flattened ring or so shaped as to prevent the ring from turning within the apertured members 8' and 13 thus to hold the hat in its extended shape. The members 8' or 13 may be secured at spaced radial intervals in numerous ways or the hat may be made of segments stitched together to provide the folds to house said members.

In folding our hat the ring section slides around within each aperture such as 11, 11' and 11'' of the stiffening members 8' and 13 and the segments are folded at each fold 14 and 16 in much the same manner as the folds of an accordion or camera bellows and the ring, when the cover is folded, extends beyond the margin or edging 5 formed by the cut out center 2 as shown in Figs. 2 and 3.

Tie ribbons or the like 17 and 18 are preferably secured at one end by the stitching of two of the radial folds 14 disposed substantially opposite to each other on the under or inside when our hat is unfolded ready for use, at 19 and 20. The free ends are tied to hold the hat on the wearer as shown in Fig. 8 of the drawings.

The materials and size of the parts may vary to suit the various uses for which our sun hat may be adapted.

The word "non-circular," as applied to the apertures in the ribs or stiffening members and also to the cross section of the material of the ring which engages the members in the apertures thereof, is intended herein to define any irregular shape which prevents the member from rotating about the ring section or from being moved any substantial amount as when the members are extended outwardly as shown in Fig. 8 or as shown in Figs. 1 and 4 as contrasted from Figs. 2 and 3 of the accompanying drawings. Thus the ring or the members may be slidingly moved in relation to each other but the members may not be rotated about the material forming the ring as a section across the periphery.

The word "non-circular" as applied to the ring section and also to the apertures in the members which receive the ring section is here defined as a shape or contour which prevents the rib so apertured and the ring section from being moved or rotated substantially about the axis of the ring section. A circular section having a key is within the meaning of non-circular or likewise a circular section leaving a key way or grooves is, when cooperating with a conforming aperture or mating part, as effective as the flattened ring section shown.

Having thus described a preferred embodiment of our invention what we claim as new and desire to secure by Letters Patent is set forth in the following claims.

We claim:

1. In a foldable hat having a flexible cover, a plurality of radially disposed members having irregular apertures for holding the cover in its extended position, a ring having irregular shaped cross section engaging said apertures and cooperating therewith to permit said members to slide on the periphery of said ring to an adjacent alongside position to fold said hat when not in use, said cover having a slit extending from its center to its periphery, said members being secured to said cover in spaced relationship and radially disposed when said hat is in its extended position and means detachably securing the edges defining said slit together and detachable to permit said members to slide around the periphery of said ring.

2. A hat comprising a plurality of radial stiffening members and a cover, a part of each of said members having non-circular apertures and a ring slidable in said apertures having a cross section non-circular and non-rotatable in said apertures to hold said hat by said members in its extended position as when in use.

3. A hat comprising a flexible cover, members having irregular apertures for supporting said cover, a ring on which said members are movable from a spaced radial relationship, when supporting the cover, to a parallel adjacent relationship when the cover is folded, said ring having a periphery, so shaped in cross section and irregular to conform to said irregular apertures to support a part of said members and said cover, said ring and the apertures in said members permitting the members to slide from one relationship to the other.

4. A hat comprising a flexible cover, members having irregular apertures for supporting said cover, a ring on which said members are movable from a spaced radial relationship, when supporting the cover, to a parallel adjacent relationship when the cover is folded, said ring having a periphery, so shaped in cross-section and irregular to conform to said irregular apertures to support a part of said members and said cover.

5. A ring support and ribs for hats and the like mounted on said ring support, said ribs having irregular apertures and said ring of said support having a conforming irregular periphery to hold said ribs in an extended spaced relationship radially by engaging said apertures, said ribs being slidable about said ring to a parallel adjacent relationship when not extended.

6. In a hat, a flexible cover comprising a plurality of segments which combine to form substantially a circular outer periphery for said hat and a plurality of radially disposed members secured to said cover and defining said segments for stiffening said hat, said members each having a non-circular aperture between the center and one end of said member, a ring having conforming non-circular ring section coöperating with said non-circular apertures to hold said hat cover in its extended position and to prevent said hat from collapsing, said members being slidable around said ring to permit said members and cover to be brought together to fold said cover of said hat.

7. In a foldable hat having a flexible cover substantially circular at its periphery, when extended, and a plurality of members radially disposed and secured to stiffen said cover, said members defining segments of said cover, said segments being folded when said hat is folded, each of the members being provided with an irregular aperture between the ends thereof and a ring having an irregular cross section engaging and slidable within said irregular apertures of said members and coöperating therewith to hold said members and cover in the extended position.

8. In a frame for hats and the like, rib members extendable from their position alongside each other in parallel relationship as when out of use, to a radially extended position, a ring having an irregular cross section throughout the entire periphery of said ring, said members each having an irregular aperture coöperating with said irregular ring cross section to hold said members in the extended radial relationship, said irregular apertures engaging any part of the periphery of said irregular ring cross section to permit said members to slide around said ring to said alongside parallel relationship.

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