

April 27, 1965

D. M. WEITZNER

3,179,954

CONVERTIBLE PLASTIC FRAME CAP

Filed Sept. 3, 1963

3 Sheets-Sheet 1

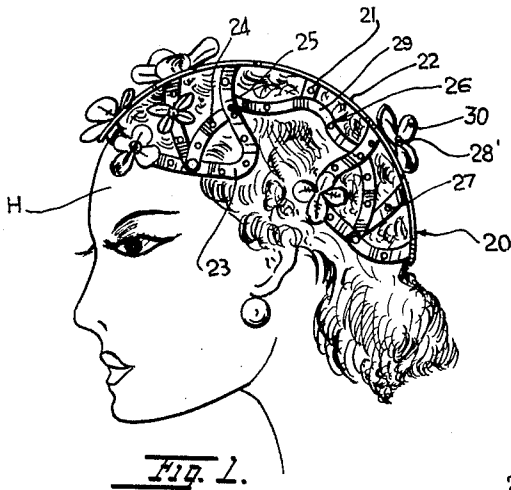


Fig. 1.

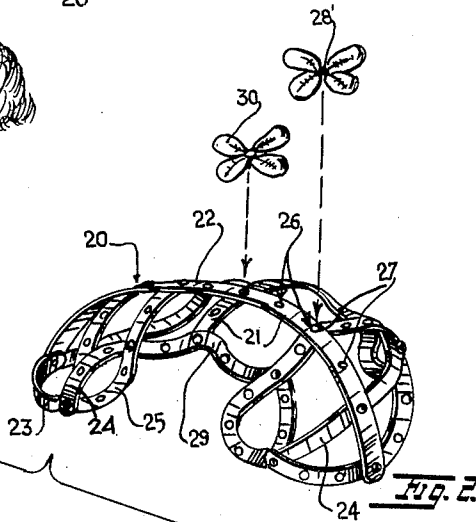


Fig. 2.

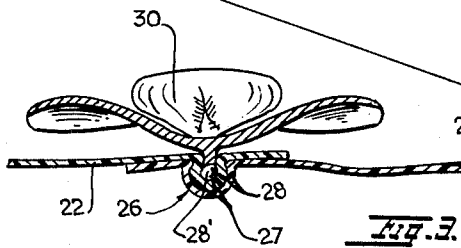


Fig. 3.

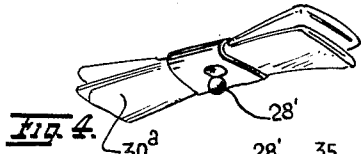


Fig. 4.

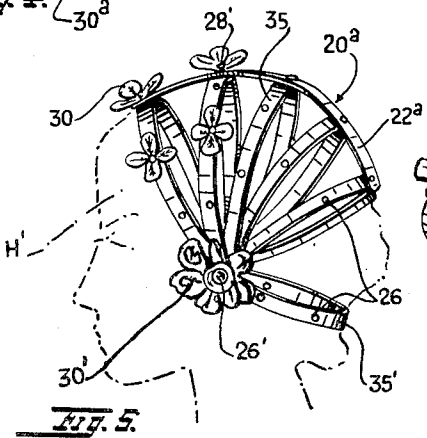


Fig. 5.

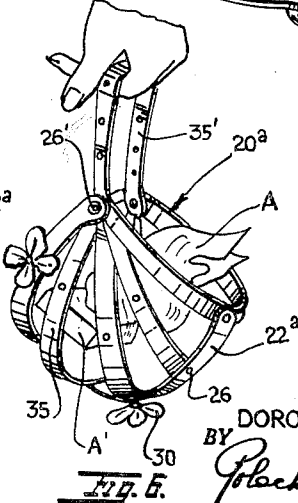
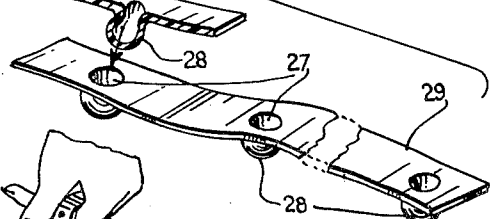


Fig. 7.

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3 Sheets-Sheet 2

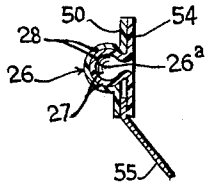
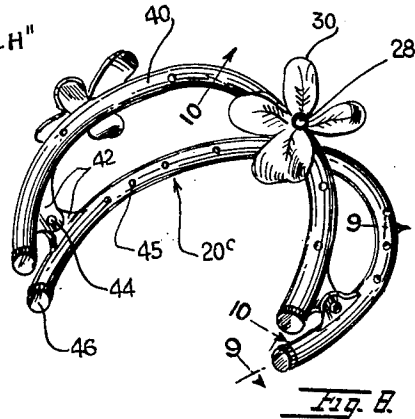
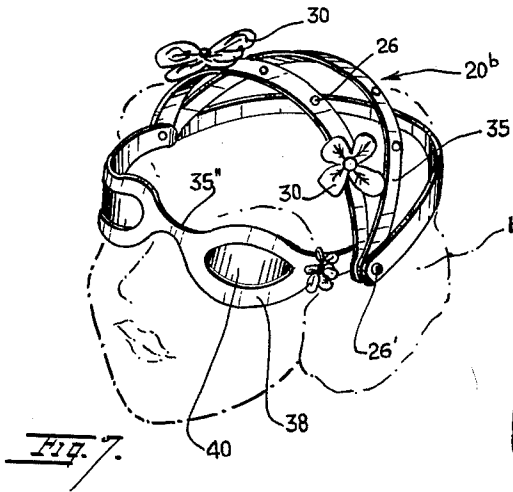
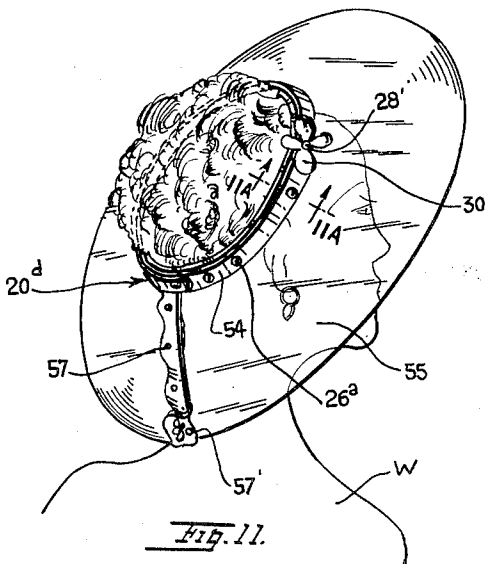
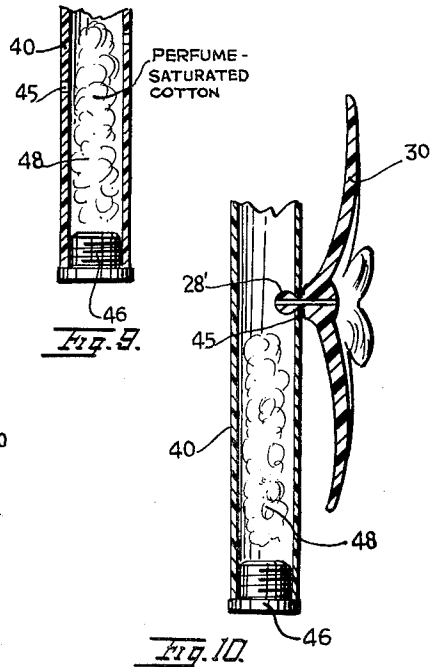


Fig. 11A.



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3 Sheets-Sheet 3

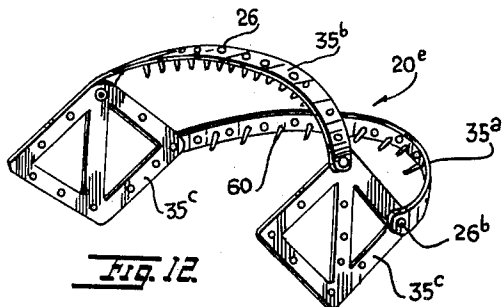


Fig. 12.

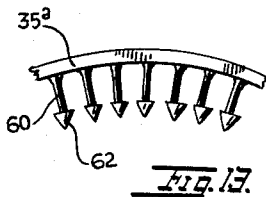


Fig. 13.

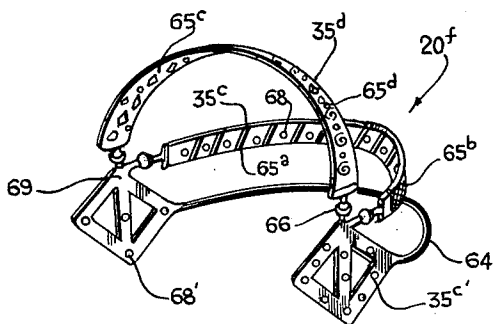


Fig. 14.

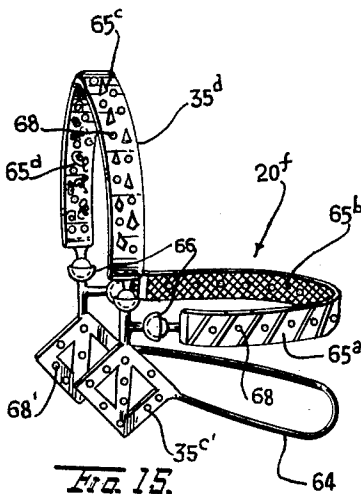


Fig. 15.

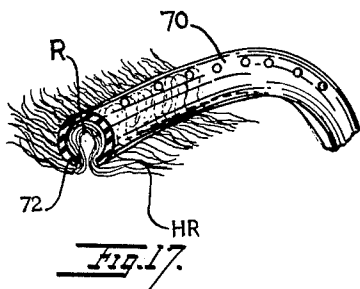


Fig. 17.

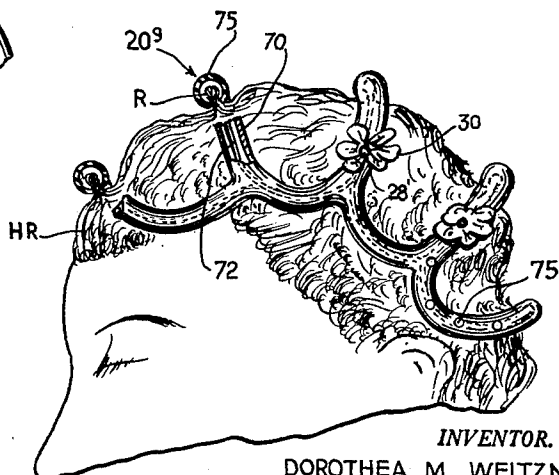


Fig. 16.

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CONVERTIBLE PLASTIC FRAME CAP

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Filed Sept. 3, 1963, Ser. No. 305,923

2 Claims. (Cl. 2—198)

This invention relates to a frame hat construction.

According to the invention there is provided a head covering made of straps, rods or other members secured together to define a frame. The members may be pivotally attached together so that the frame is adjustable for various sizes of heads, for setting the frame in different positions on a head, and for collapsing the frame when removed from the head. The several members may be provided with hooks or projections to engage in the hair and hold the frame on the head. The members may be provided with holes or fasteners to engage a variety of decorative ornaments which are replaceable and interchangeable to vary the decorative effect. The frame may be used as a support for a brim or crown to make a complete hat.

It is therefore one object of the invention to provide a frame which may be used as part of an ornamental head covering.

A further object is to provide a frame made of pivotally attached members which can be extended to define a head covering, the several members having means for detachably engaging interchangeable ornaments.

Another object is to provide a frame as described with means for holding the frame on a wearer's head by engaging the wearer's hair.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

FIG. 1 is a side elevational view of a head covering embodying the invention shown being worn on the head of a person.

FIG. 2 is an exploded perspective view of the frame and detached ornaments of the head covering of FIG. 1.

FIG. 3 is an exploded perspective view partially in section of parts of the head covering of FIGS. 1 and 2.

FIG. 4 is a perspective view of a ribbon ornament which may be used with the frame of FIGS. 1-3.

FIG. 5 is a side elevational view of another head covering.

FIG. 6 is a perspective view of the head covering of FIG. 5 in partially collapsed, inverted position.

FIG. 7 is a perspective view of another head covering shown being worn by a person.

FIG. 8 is a perspective view of still another head covering according to the invention.

FIG. 9 and FIG. 10 are sectional views on an enlarged scale taken on lines 9-9 and 10-10, respectively, of FIG. 8.

FIG. 11 is a perspective view of still another head covering according to the invention.

FIG. 11A is an enlarged fragmentary sectional view taken on line 11A-11A of FIG. 11.

FIGS. 12 and 14, 15 are perspective views of two other head coverings according to the invention.

FIG. 13 is an enlarged side elevational view of part of another head covering.

FIG. 16 is a side elevational view of a further head covering shown being worn by a person.

FIG. 17 is a perspective view partially in section on an enlarged scale of part of the head covering of FIG. 16.

Referring first to FIGS. 1, 2 and 3, there is shown a

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head covering construction in the form of a frame 20. This frame includes a central longitudinal band 22 which may be positioned on the line of symmetry of head H of the wearer extending front to rear of the head. Extending laterally of the longitudinal band 22 are cross or transverse bands 21, 24, 25. Bands 25 may be formed into loops 23 at their outer ends and outer ends of bands 24 may be attached to the loops 23. Longitudinal bands 29 join bands 25. Cross bands 21 join bands 22 and 29. It is preferred that snap fastener elements 26 be provided in each of the longitudinal and cross bands at spaced intervals. Each of these elements preferably has a stud 28 with a recess 27 to receive a stud 28 of another element carried by an intersecting band or to receive a stud 28' of an ornament 30 such as a simulated flower or the like. The bands can be detached from each other or can be pivoted and turned with respect to each other to adjust the size of the frame and position thereon on the head of the wearer. The ornaments can be selectively located and attached anywhere desired along the bands and at the joined intersections thereof. Any number of ornaments may be employed of the same or different design.

FIG. 4 shows a ribbon ornament 30^a which is provided with a stud 28' for engaging in recess 27 in one of the elements 26 of the frame 20 to vary the decorative effect.

FIGS. 5 and 6 show a frame 20^a in which cross bands 35 are arcuate in form and connected at their ends by fastener elements 26'. A central longitudinal band 22^a joins centers of bands 35. Another arcuate band 35' is attached to elements 26' but is free from band 22^a so that it can be pivoted for adjustably positioning it at the back of the wearer's head H'. This freely pivotable band 35' can be used as a handle for carrying the frame 20^a in an inverted position as shown in FIG. 6. The inverted frame 20^a may be used as a convenient handbag for carrying various articles A, A'.

Flower ornaments 30 or any other suitable ornaments can be detachably engaged in any of the fastener elements 26 located at spaced intervals along bands 22^a, 35, 35'. Ornaments 30' can be attached to fasteners 26'.

In FIG. 7 is shown a frame 20^b which is similar to frame 20^a except that longitudinal band 22^a is omitted. The arcuate bands 35 and 35' joined by fastener elements 26' can be pivotally adjusted on the head H'' of the wearer. Arcuate band 35'' is provided with enlarged eyepieces 38 and lenses 40 to serve as sunglasses. Ornamental members 30 are detachably and interchangeably engaged with fastener elements 26.

Frame 20^c of FIGS. 8, 9 and 10 is formed by arcuate tubular members 40 having ears 42 pivotally joined by rivets 44. These members have spaced openings 45 in which can be engaged the studs 28' or ornaments 30. At the ends of the members 40 are screw caps 46 which can be removed for insertion of perfumed or scented pads 48 into the tubular members. The aroma of the pads will pass through the openings 45 to scent the hair of the wearer.

In FIG. 11 and FIG. 11A, the frame 20^d includes a flexible band 50 which extends circumferentially around the head of the wearer W. The inner margin or binding 54 of a wide fabric band 55 has fastener elements 26^a which can be attached to fastener elements 26 to form a brimmed hat with open crown. Fastener elements 28' on ornaments 30 can be engaged on the elements 26^a of the band 55. Snap fasteners 57, 57' can be used to detachably secure ends of band 55 together radially of the brim of the hat.

FIG. 12 shows a frame 20^e which has a rear arcuate band 35^a formed with forwardly extending teeth 60 for engaging in the hair of a wearer. These teeth 60 may be formed with laterally extending tips 62 as shown in FIG. 13 for engaging the hair of the wearer more effectively.

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The frame 20^e has a cross band 35^b for extending over the top of the wearer's head. Rectangular open frame members 35^c are pivotally engaged with fasteners 26^b at ends of bands 35^a, 35^b. Fasteners 26 are provided in the bands and frame members for receiving studs of ornamental members 30.

In FIGS. 14 and 15, frame 20^f has a supplementary spring steel band 64 attached to ends of rectangular frame members 35^{c'} to engage under the hair of a wearer at the back of the wearer's head. Opposite sides of arcuate bands 35^c, 35^d are differently ornamented or decorated with various designs 65^a, 65^b and 65^c, 65^d. The ends of the bands are secured by universal swivel joints 66 to upper apical corners 69 of members 35^{c'}. The bands 35^c, 35^d can be reversed in positions to place different designs on the outer sides. Thus, in FIG. 14 designs 65^a, 65^c are inside and in FIG. 15, designs 65^a, 65^c are outside, while designs 65^b, 65^d are outside in FIG. 14 and inside in FIG. 15. Holes 68, 68' in the several bands and frame members are provided to receive studs of ornaments such as flower ornaments 30 of FIG. 1.

In FIGS. 16 and 17 is shown a frame 20^g made of integrally joined flexible tubular plastic bands 70. The bands have longitudinal slots 72 at their undersides for engaging rolls R of the hair of the wearer. Spaced openings 75 in the bands engage fastener elements 28' of ornamental members 30.

In all the frames described above, it is preferred that the several bands of the frames be formed of flexible plastic material with the fastener elements 26 integrally formed therewith. The frames when removed from the wearer's head can be folded or rolled up to occupy very little space in a handbag or purse. They are inexpensive to manufacture, easy to use, easily cleaned, and readily interchangeable.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and that various changes and modifications may be made within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:

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1. A head covering structure, comprising a frame including a pair of generally rectangular open frame members, a plurality of bands, cooperating universal swivel means on said frame members and opposite ends of said bands pivotally joining said bands to said members so that either side of each band can be turned to face outwardly of the frame, the opposite sides of each band being differently decorated, so that the appearance of the frame can be changed by turning the bands around.

2. A head covering structure comprising a frame including a pair of generally rectangular open frame members, a plurality of bands, cooperating universal swivel means on said frame members and opposite ends of said bands pivotally joining said bands to said members so that either side of each band can be turned to face outwardly of the frame, the opposite sides of each band being differently decorated, so that the appearance of the frame can be changed by turning the bands around, and a supplementary band of springy metal joined to said frame members for engaging under the wearer's hair at the back of the wearer's head.

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