March 11, 1947. H. B. RICHARDS ET AL 2,417,323

SWIMMING CAP

Filed May 19, 1944

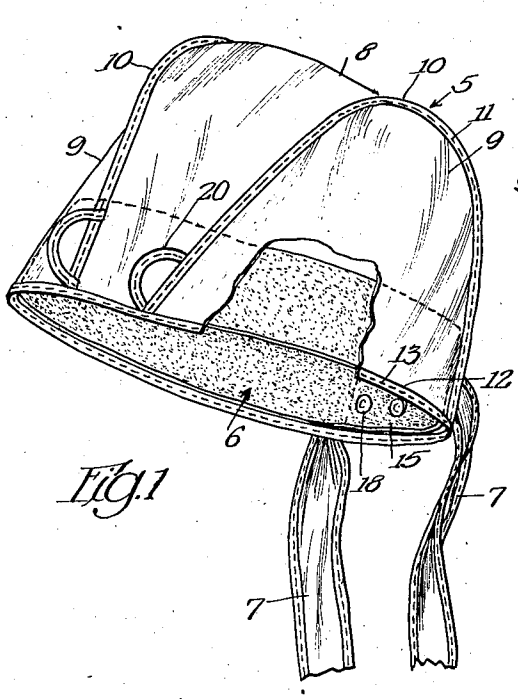


Fig. 1

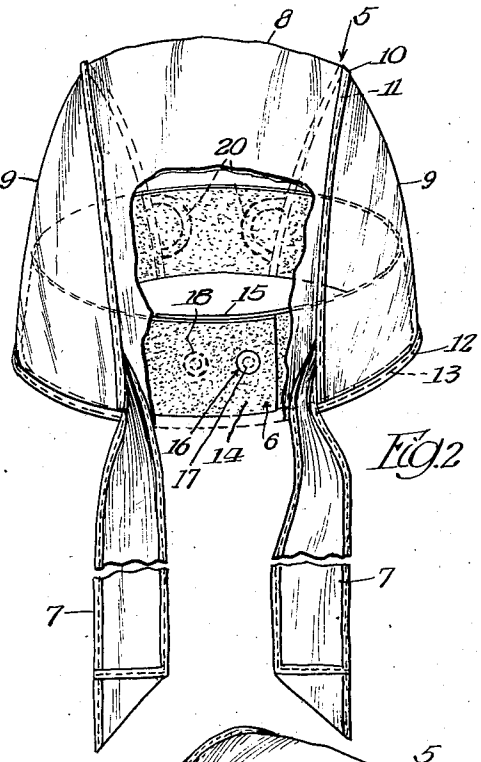


Fig. 2

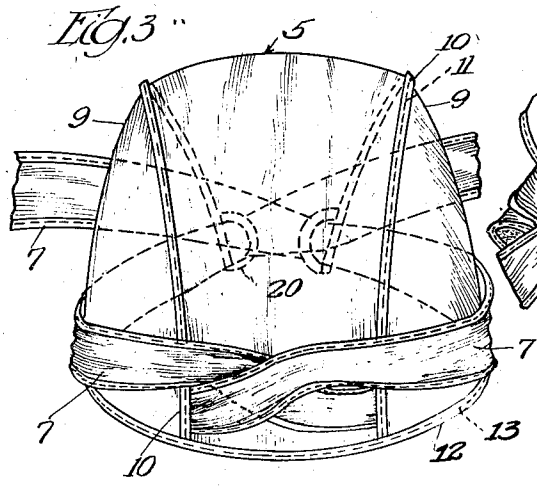


Fig. 3

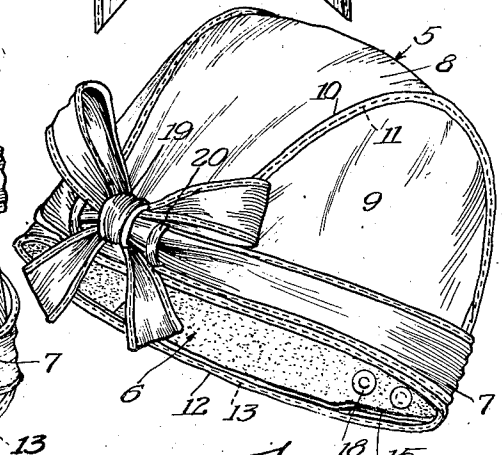


Fig. 4

Inventors
Marie T. Crawford
Harvey B. Richards
By Paul Klerlach Attys.

Patented Mar. 11, 1947

2,417,323

UNITED STATES PATENT OFFICE

2,417,323

SWIMMING CAP

Harvey B. Richards and Marie T. Crawford, Chicago, Ill., assignors to Richards, Boggs & King, Inc., Chicago, Ill., a corporation of Delaware

Application May 19, 1944, Serial No. 536,308

2 Claims. (Cl. 2—68)

1

The present invention relates generally to caps. More particularly the invention relates to that type of cap which is adapted to be worn while the user or wearer is swimming or engaged in aquatic activities and serves as a medium for preventing the wearer's hair from becoming wet.

One object of the invention is to provide a swimming cap which is an improvement upon, and has certain advantages over, previously designed caps and is characterized by the fact that it is long lasting, effectively and efficiently fulfills its intended purpose and is capable of being produced at an extremely low cost.

Another object of the invention is to provide a swimming cap which comprises a cap proper of waterproofed fabric and in addition a band which is formed of moisture or water absorptive material, such as chamois, is surrounded by the margin of the cap proper and is adapted when the cap is in use to fit tightly around the wearer's head and prevent water from penetrating the interial of the cap proper and wetting the wearer's hair.

Another object of the invention is to provide a swimming cap of the last mentioned character in which the chamois band is adjustable as to diameter and is permanently attached to the cap proper.

Another object of the invention is to provide a swimming cap of the type and character under consideration which comprises in addition to the cap proper and the band a pair of tie strips which are connected to the back portion of the cap proper, are adapted to extend forwardly around the side portions of the lower margin of the cap proper and to have their front or free ends tied together and serve when in their operative position to compress the lower margin of the cap proper tightly around the chamois band.

A further object of the invention is to provide a swimming cap of the last mentioned type and character in which the cap proper is provided at the front portion thereof with a pair of loops which are adapted to have the front ends of the tie strips threaded therethrough and serve to hold the tie strips in place and to prevent them from sliding upwards over the cap proper.

A still further object of the invention is to provide a swimming cap which is generally of new and improved construction, and is so designed that it is pleasing in appearance.

Other objects of the invention and the various advantages and characteristics of the present swimming cap will be apparent from a consideration of the following detailed description.

2

The invention consists in the several novel features which are hereinafter set forth and are more particularly defined by claims at the conclusion hereof.

In the drawing which accompanies and forms a part of this specification or disclosure and in which like numerals of reference denote corresponding parts throughout the several views:

Figure 1 is a front perspective view of a swimming cap embodying the invention, a portion of the margin of the cap proper being broken away in order to show the arrangement and location of the internal chamois band, and the tie strips being shown before tying thereof;

Figure 2 is a fragmentary rear perspective view of the cap illustrating in detail the manner in which the ends of the chamois band are adjustably connected together;

Figure 3 is a rear perspective view showing the manner in which the rear ends of the tie strips are connected to the rear portion of the cap proper and illustrating the strips after they have been brought around the side portions of the cap proper and the front ends thereof have been inserted through the loops at the front portion of the cap proper; and

Figure 4 is a front perspective view showing the cap after the front ends of the tie strips have been tied together.

The cap which is shown in the drawing constitutes the preferred form or embodiment of the invention. It is adapted to be worn in connection with water activities on the part of the user or wearer, serves, when in use, to prevent the wearer's hair from becoming wet and comprises a cap proper 5, a sealing band 6, and a pair of tie strips 7.

The cap proper is shaped so as fully to encompass or surround the top portion of the wearer's head and is formed of waterproofed fabric. It is flexible, although not stretchable, and consists of an intermediate piece 8 and a pair of side pieces 9. The intermediate piece 8 forms the crown of the cap proper. The ends of the intermediate piece extend downwards and are tapered, as shown in the drawing. The side pieces 9 are located at opposite sides of the intermediate piece 8 and are substantially semi-circular in contour or conformation. They form the sides of the cap proper and have the upper and side margins thereof arranged in abutting relation with the side margins of the intermediate piece 8. The abutting margins of the side and intermediate pieces are surrounded by a pair of binding strips 10 of U-shaped cross section and are connected

together by stitching 11 which extends through the binding strips and said abutting margins of the side and intermediate pieces of the cap proper. The lower margins of the side and intermediate pieces are substantially coplanar and are reenforced by way of a circular binding strip 12 of U-shaped cross section. The latter binding strip surrounds the lower margins of the side and intermediate pieces of the cap proper and is secured in place by stitching 13. The cap proper 5 is sufficiently large so that when it is worn the wearer's hair is completely covered.

The sealing band 6 is surrounded by the margin of the cap proper 5 and is formed of any suitable moisture or water absorptive material. Chamois is preferably used to form the band inasmuch as it has a tendency, when moistened, to contract. The central portion of the band 6 is permanently connected or attached to the front portion of the cap proper by the front ends of the stitching 11. The ends of the band are designated, respectively, by the reference numerals 14 and 15 and are releasably and adjustably connected together by a snap fastener device 16. The latter comprises a socket equipped or female part 17 on the band end 14 and a pair of head equipped or male parts 18 on the band end 15. The male parts are spaced laterally apart and are adapted to have the female part applied selectively to them. In connection with use of the cap the central portion of the band is placed against the wearer's forehead and the ends are then brought around the sides of the wearer's head and are connected together by the snap fastener device 16. By applying the female part 17 of the device to either of the male parts 18 the ends of the band may be so connected that the band tightly encircles the wearer's head. After the band is manipulated into position the cap proper is swung rearwards until the margin thereof fully surrounds or encompasses the band 6.

The tie strips 7 serve, when the cap is in use, to compress the margin of the cap proper tightly around the chamois sealing band 6. They are designed, as shown in the drawing, to surround the margin of the cap proper and to have the front ends thereof tied together in a bowknot 19. The rear ends of the strips are spaced laterally apart and are connected to the rear portion of the cap proper by way of the rear ends of the stitching 11. As shown in Figure 3 the rear ends of the strips are designed to cross one another in order, when the front ends of the strips are tied together, the rear portion of the cap proper is contracted. By contracting the rear portion of the cap proper in connection with tying of the tie strips 7 the margin of the cap proper is brought into tightly compressed relation with the chamois band 6. After the band and cap proper are applied to the wearer's head the tie strips 7, after crossing of the rear ends thereof, are brought forwards around the side portions of the cap proper and are then tied together at their front ends. By tightly tying the front ends of the tie strips together the band 6 is brought into clamped relation with the wearer's head and forms a seal whereby water is precluded from penetrating the cap proper. The tie strips 7 are preferably formed of waterproofed fabric and are of sufficient length so that the front ends thereof may be readily tied into the bowknot 19.

In order to hold the tie strips in place and prevent them from sliding upwards over the cap proper a pair of loops 20 is provided. Such loops are positioned laterally apart and are associated respectively with the front ends of the binding strips 10. The ends of the loops are anchored to the front ends of the binding strips 10 by the front ends of the stitching 11. In connection with application of the cap to the wearer's head the front ends of the tie strips 7 before tying thereof are inserted through the loops 20. They are then tied together to form the bowknot 19. By reason of the fact that the rear ends of the tie strips are connected to the rear portion of the cap proper and the front ends of the tie strips are held in place by the loops 20 the tie strips are effectively held in place and cannot slide upwards over the cap proper.

The herein described swimming cap is essentially simple in design and hence may be produced at a low and reasonable cost. It effectively and efficiently fulfills its intended purpose and is characterized by the fact that it will, when used, keep the wearer's hair dry. The cap may be applied and removed with facility and, because of its design, is pleasing in appearance.

Whereas the cap has been described as a swimming cap it is to be understood that it may be used for purposes other than swimming. It is also to be understood that the invention is not to be restricted to the details set forth since these may be modified within the scope of the appended claims without departing from the spirit and scope of the invention.

Having thus described the invention what we claim as new and desire to secure by Letters Patent is:

1. As a new article of manufacture, a swimming cap comprising a cap proper formed of flexible fluid impervious material and shaped to cover the upper portion of the wearer's head, a band forming strip of flexible absorptive material disposed within the margin of the cap proper, adapted to encircle the head of the wearer and having the central portion thereof connected to said cap proper and its ends free and provided with means for releasably and adjustably connecting them together, a pair of externally disposed tie strips having certain ends thereof connected to one portion of the margin of the cap proper and adapted when the cap is in use to surround said margin and have the free ends thereof tied together, and a pair of externally disposed laterally spaced loops connected to the portion of the margin of the cap proper that is opposite the portion to which said certain ends of the strips are connected, adapted to have the free ends of the strips threaded, respectively, therethrough, and serving when said free ends of the strips are threaded therethrough and tied to hold such ends in place against the adjacent portion of the margin of the cap proper.

2. As a new article of manufacture, a swimming cap comprising a cap proper shaped to cover the upper portion of the wearer's head and formed of flexible waterproofed fabric, a chamois band forming strip disposed within the margin of the cap proper, adapted to encircle the head of the wearer, having the central portion thereof connected to the front portion of the margin of the cap proper and its ends free and provided with means for releasably and adjustably connecting them together, a pair of externally disposed tie strips having certain ends thereof crossed and spaced laterally apart and connected to the rear portion of the margin of the cap proper, and adapted to surround said margin and to have the free ends thereof tied together at

the front portion of said margin, and a pair of externally disposed laterally spaced loops connected to said front portion of the margin of the cap proper, adapted to have the free ends of the strips threaded, respectively, therethrough, and serving when said free ends of the strips are threaded therethrough and tied to hold such ends in place against the adjacent portion of the margin of the cap proper.

HARVEY B. RICHARDS.
MARIE T. CRAWFORD.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,153,687	Hellinga	Sept. 14, 1915
1,693,341	Loyer et al.	Nov. 27, 1928
2,063,232	Davies	Dec. 8, 1936
2,192,080	Hock	Feb. 27, 1940
1,798,024	McBride	Mar. 24, 1931