June 26, 1962 S. E. PLANK 3,040,336

HAIR RINSING CAPE

Filed Aug. 28, 1959

FIG. 1

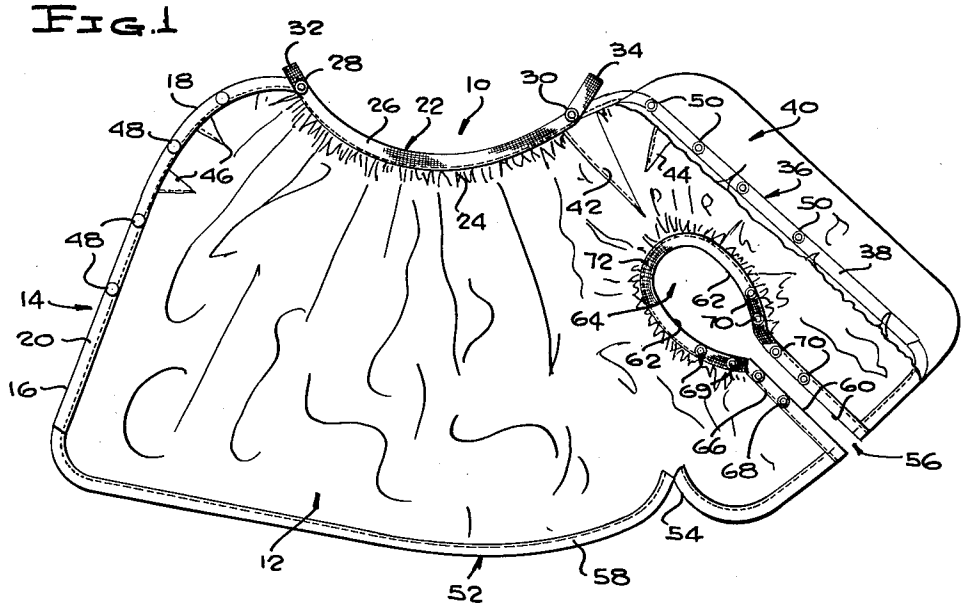


FIG. 2

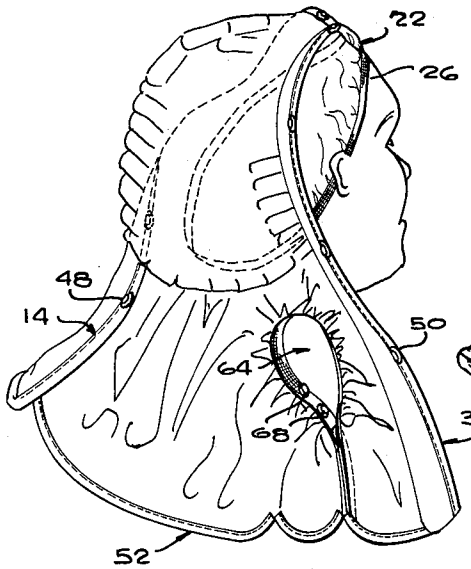


FIG. 3

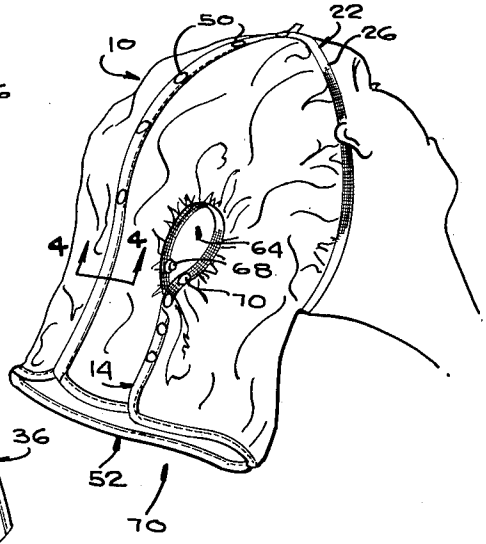
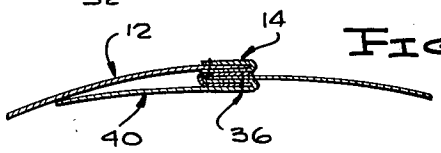


FIG. 4



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HAIR RINSING CAPE

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This invention relates to a novel rinsing cape for use particularly in the rinsing operations necessary in administration of permanent cold waves.

The primary object of the invention is to provide an efficient and easily used device of this kind which eliminates the wetting of the neck, ears and shoulders of the patron and the splashing about of spray water which are incidental to the repeated rinsings involved in neutralization steps, and which subject the patron to discomfort and inconvenience, as well as the operator, and increase the difficulty and expense of maintaining the equipment in a sanitary and attractive condition.

Another object of the invention is to provide a simple, inexpensive, unbulky device of the character indicated above which completely encloses the hair of the patron, from the forehead back to the shoulders, so that spray water applied within the device to the hair is more efficiently and economically used, the device having an adjustable access opening through which the spray nozzle and the hand of the operator are inserted and which can be closed around the wrist of the operator during rinsing operations to prevent escape of water and waving solution.

Other important objects and advantageous features of the invention will be apparent from the following description and the accompanying drawings, wherein, for purposes of illustration only, a specific form of the invention is set forth in detail.

In the drawings:

FIGURE 1 is a plan view showing the inner side of a device of the invention in opened condition;

FIGURE 2 is a rear elevation showing the device partially applied to the hair and head of a patron;

FIGURE 3 is a view similar to FIGURE 2, showing the device closed up around the hair in fully applied condition; and,

FIGURE 4 is an enlarged fragmentary horizontal section taken on the line 4—4 of FIGURE 3.

Referring in detail to the drawings, wherein like numerals designate like parts throughout the several views, the illustrated device, generally designated **10**, comprises a substantially segmental flexible sheet **12**, of suitable relatively unstretchable material, such as plastic, which is sufficiently transparent to enable the hair of the patron, the hand of the operator, and a spray nozzle, to be seen therethrough when the device is fully applied to the head of the patron.

The sheet **12** has a downwardly and outwardly divergent first side edge **14** which is composed of a main lower straight portion **16** and a minor upper and inwardly and upwardly curved portion **18**, which are closed with plastic covered, or other suitable material binding **20**, secured in suitable manner therealong.

Extending longitudinally inwardly from the upper end of the curved upper side edge portion **18**, the sheet **12** has a downwardly curved upper edge **22**, which is slightly gathered as indicated at **24**, and is enclosed in stretchable resilient binding **26**, suitably secured therealong. The upper edge **22** is the forehead engaging element of the device, and has fixed thereon at related ends thereof, male and female separable fasteners, such as gripper snaps **28** and **30**, respectively. The binding **26** has free ends **32** and **34**, which serve as tabs for conveniently and easily applying the upper edge **22** to the forehead, in a stretched condition, and engaging the snaps **28** and **30**.

The sheet **12** has a second side edge **36** which is similar to and disposed on the sheet like the first side edge **14**, and has secured therealong plastic coated binding **38**, the bindings **26** and **38** being preferably bias type bindings. In addition, the second side edge **36** is characterized by having suitably secured therealong and extending laterally or longitudinally outwardly therefrom, a vertically elongated substantially uniform width flap **40**, preferably of sheet plastic, to protectively underly and bridge any gap between the side edges **14** and **36**, and their fastening means, and keep these things out of uncomfortable contact with the neck and shoulders of the patron. The material of the sheet **12** is formed with a vertical dart **42**, at the upper edge **22**, near the second side edge **36**, and with a horizontal dart **44**, at the second side edge **36**, near the upper edge **22**, and with several horizontal darts **46** at the first side edge **14**, near the upper edge **22**, so as to give the sheet desirable concavities in the areas of the darts.

Secured to related sides of the side edge bindings **26** and **38** are male and female gripper fasteners **48** and **50**, respectively, which are to be severally engaged with each other in the closed up condition of the device **10**, as shown in FIGURE 3.

The sheet **12** has a longitudinally and downwardly curved lower edge **52** which has a blind, V-shaped indentation **54**, near the second side edge **36**, and a vertical slot **56** which is located between the indentation **54** and the second side edge **36**. The lower edge **52** is enclosed in a plastic covered bias binding **58** which is suitably secured therealong.

The slot **56** has straight lower edge portions **60**, which are coextensive with each other, and concavely curved upper edge portions **62**, which are joined at their upper ends, so as to form an oblong wrist and had access opening **64** in the sheet **12**, at a location midway between the upper edge **22** and the lower edge **52** and near to the second side edge **36**. The edges of the slot **56** are enclosed in suitably secured plastic covered bias binding **66**. Secured along the straight edge portions **60** are spaced male and female snap fasteners **68** and **70**, respectively, which are to be engaged with each other to close the lower part of the slot, while elastic binding **72**, suitably secured along the curved upper edge portions **62**, serves to contact the edges of the opening **64** around the wrist of the operator, when extended therethrough.

To apply the device **10** to the head of a patron, the upper edge **22** is held by the tabs **32**, **34** and stretched and wrapped upwardly from the nape of the neck, under the gathered hair, and brought upwardly around the sides of the head, and then secured across the forehead with the fasteners **28** and **30**. The edge **22** is then manipulated so as to free the ears of the patron, and so that the edge **22** engages the sides of the head just above the ears, as indicated in FIGURE 2.

The side edges **14** and **36** of the device **10** are then brought rearwardly and upwardly around the hair, and the fasteners **48** and **50** engaged, so these edges overlap and are secured together, as shown in FIGURES 3 and 4, with the flap **40** bridging the juncture. This makes of the sheet **12** a tube which is closed, at its upper end, by the patron's hair and head, but which is open at its lower end, to drain rinse water and waving solution into a suitable receptacle, provided for the purpose. As shown in FIGURES 2 and 3, the vertical dimension or height of the sheet **12** is such that the open lower end of the applied device **10**, indicated at **70**, is positioned well below the patron's nape, and preferably part way down the back, so that the lower end of the device can be swung away from the patron and positioned with open lower end thereof well within a receptacle.

The device **10** having been applied, as above described, the operator passes a hand, holding a rinsing hose nozzle (not shown) through the slot **56**, and, according to the

girth of the operator's wrist, adjusts the initial size of the opening 64 by engaging one or more pairs of the snap fasteners 68 and 70, whereat the elastic binding 72 of the opening contracts around the wrist and makes a watertight junction therewith. The operator then works the nozzle over the hair within the device for the rinsing operations, watching the work through the transparent sheet 12, while the resultant water and solution drain from the device into a receptacle, without attention from or interference with the work of the operator and without wetting the patron or her clothes, or adjacent equipment.

While there has been shown and described herein a preferred form of the invention, it is to be understood that the invention is not necessarily confined thereto, and that any change or changes in the structure of and in the relative arrangements of components thereof are contemplated as being within the scope of the invention as defined by the claims appended hereto.

What is claimed is:

1. A hair rinsing device comprising a flexible tube having an open lower end adapted to drain hair treating liquid from the head of a subject, the upper end of the tube being gathered and being extensible, an elastic strip secured along said upper end and adapted to be stretched to encircle the upper part of the head of a subject and to be relaxed to contract around the head of the subject whereby the upper part of the head of the subject is enclosed against leaking of liquid between the upper end of the tube and the head, within the upper part of the tube, and means for separably connecting the ends of the said upper edge together for constricting the upper end of the tube around the head, the wall of the tube having an opening spaced upwardly from the lower edge of the tube, said opening being large enough to admit the hand of an operator for applying hair treating liquid

to the subject's head within the tube and manipulating the subject's hair.

2. A hair rinsing device comprising a flexible tube having an open lower end adapted to drain hair treating liquid from the head of a subject, the upper end of the tube being gathered and being extensible, an elastic strip secured along said upper end and adapted to be stretched to encircle the upper part of the head of a subject and to be relaxed to contract around the head of the subject whereby the upper part of the head of the subject is enclosed against leaking of liquid between the upper end of the tube and the head, within the upper part of the tube, and means for separably connecting the ends of the said upper edge together for constricting the upper end of the tube around the head, the wall of the tube having an opening spaced upwardly from the lower edge of the tube, said opening being large enough to admit the hand of an operator for applying hair treating liquid to the subject's head within the tube and manipulating the subject's hair, said tube comprising a sheet having upwardly convergent side edges and a concave upper edge, means separably connecting said side edges in overlapping relationship.

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