

No. 772,763.

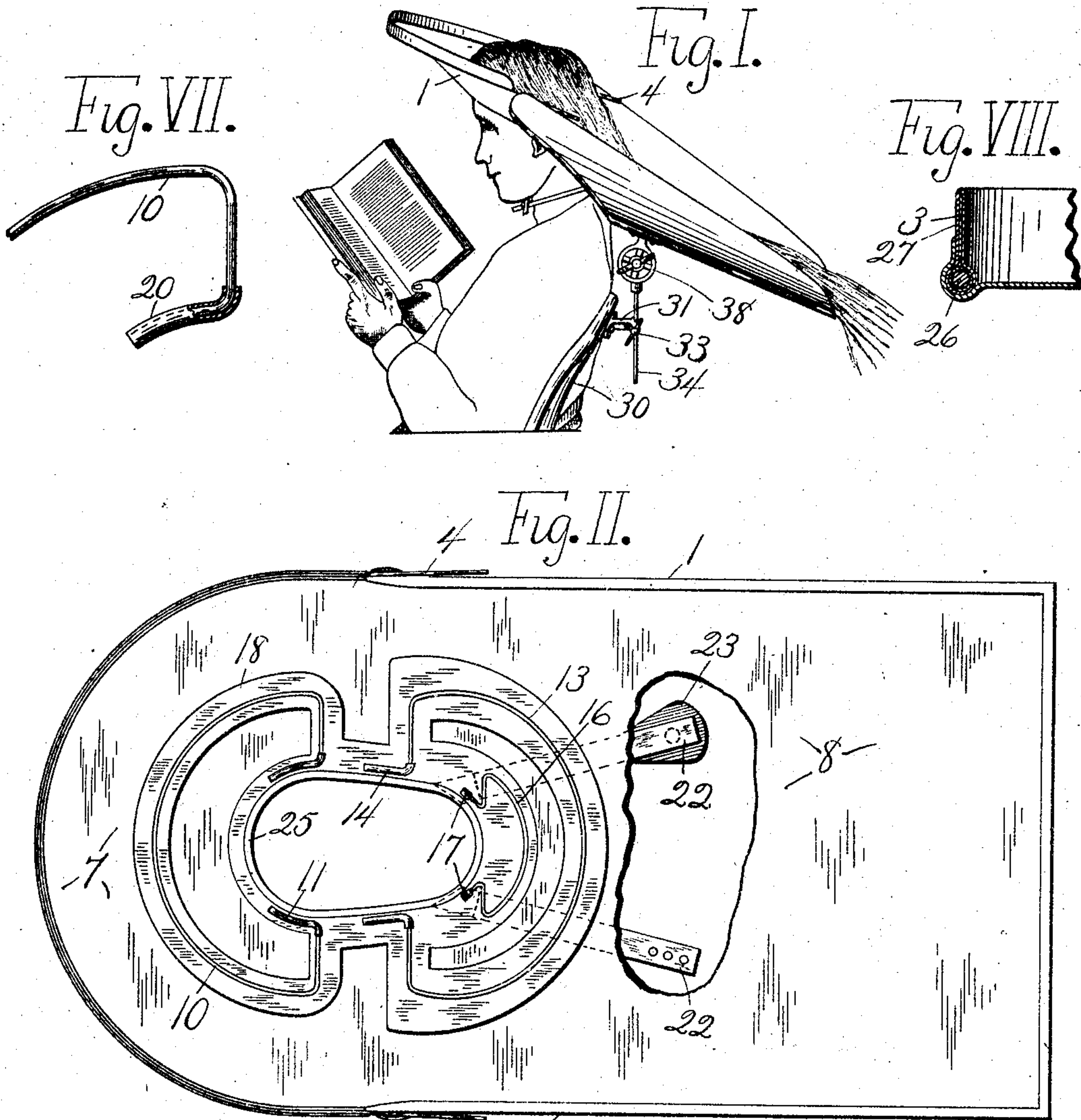
PATENTED OCT. 18, 1904.

W. J. H. WALTERS.
SHAMPOOING HOOD.

APPLICATION FILED APR. 27, 1904.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES:

Chornock
M. B. Smith

INVENTOR.

William J. H. Walters
BY *Alfred Wilkinson*
ATTORNEY.

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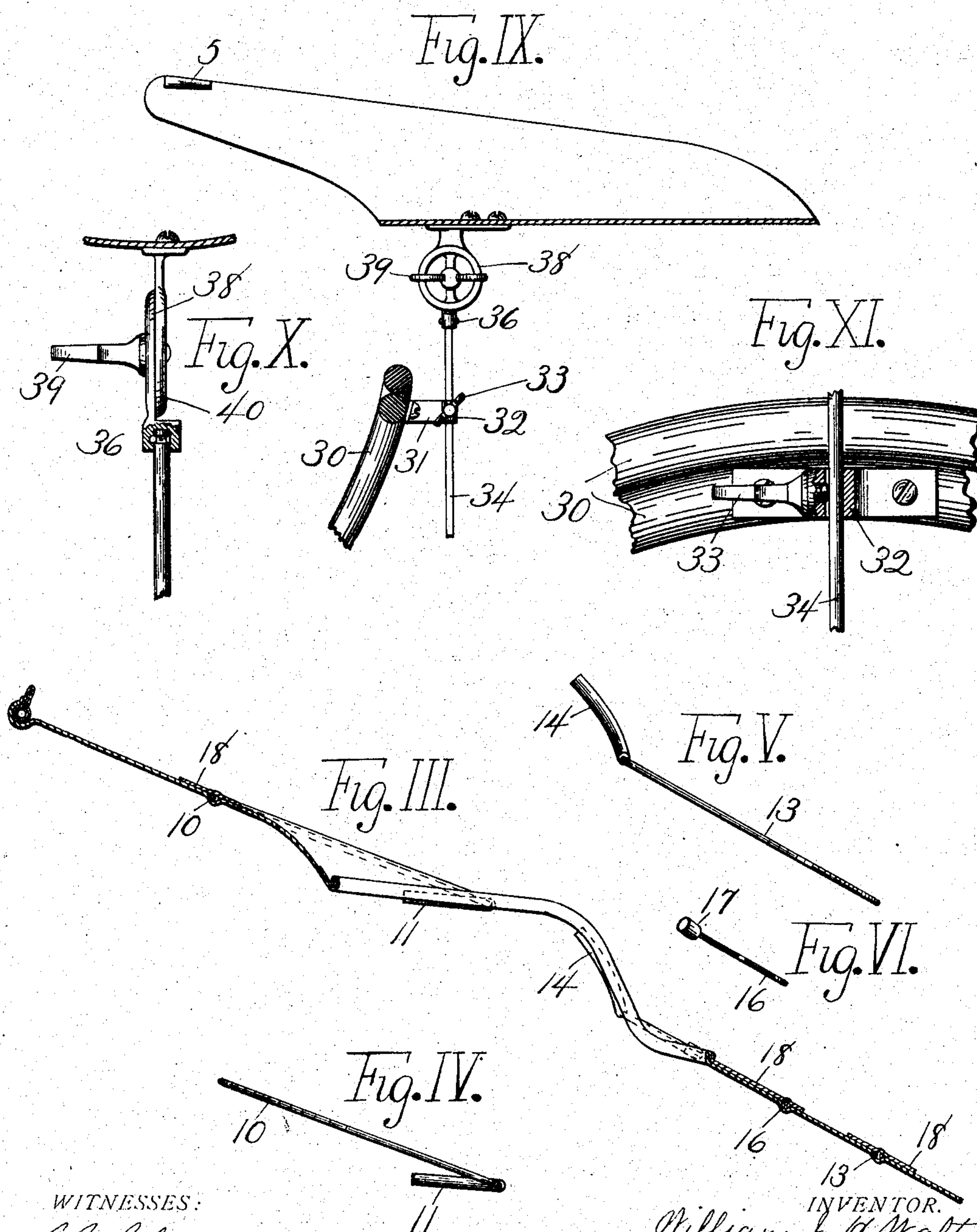
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WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM J. H. WALTERS, OF SYRACUSE, NEW YORK.

SHAMPOOING-HOOD.

SPECIFICATION forming part of Letters Patent No. 772,763, dated October 18, 1904.

Application filed April 27, 1904. Serial No. 205,096. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. H. WALTERS, a citizen of the United States, residing at Syracuse, in the county of Onondaga and State of New York, have invented certain new and useful Improvements in Shampooing-Hoods; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention consists in the improved construction of a shampooing-hood, fitting the head to protect the face and the clothing and permitting the washing and shampooing of the hair while the patient sits in a normal position in any convenient chair on which the hood is supported.

This invention is an improvement on the device of my United States Letters Patent No. 717,148.

The essential features of my invention are the hood, formed of a rubber sheet having an oval opening arranged to fit the head, a suitable curved margin around the front portion of the hood, forming a channel between it and the head, and a suitable means for supporting the hood so that the water will flow away over the loose apron at the back. Reinforcing spring-wires secured to the sheet and arranged substantially in its plane are arranged to grip the head so that the edge of the opening will fit the head and fill its hollows, avoiding the possibility of leaking. Two wires are essential; but I prefer to use three, preferably made of spring-steel and attached throughout their entire extent to the rubber sheet, as by vulcanizing. These wires and their peculiar forms are as follows: The-crown wire, curved around the forehead and having its inwardly and forwardly extending ends bent slightly down to engage with the temples, the ear-wire, curved around the back of the head and having its inwardly and forwardly turned ends bent slightly up to engage with the back of the ears, filling those hollows and preventing the rubber sheet from falling on the ears, and the smaller neck-wire, curved around the neck and having its ends bent in a horizontal plane to grip the sides of the neck. All

of these wires have their ends which engage with the head cushioned by a covering of softer material, such as rubber tubing. Straps are secured to the hoods at about the ends of the neck-wire to hold the edge of the opening tight against the neck and to maintain the entire front portion of the hood in its convenient inclined position.

I prefer to support the hood on a curved guide or trough plate adjustably supported on the chair, so that the hood may be easily adjusted in and out to adapt it to heads and patients of different sizes.

My invention will be understood by reference to the drawings herewith, in which the reference-numerals of the specification indicate the corresponding parts in all the figures.

Figure I is an isometric view of my improved hood shown in operative position on a patient. Fig. II is an enlarged plan of the rubber hood. Fig. III is a longitudinal section thereof, further enlarged. Figs. IV, V, and VI are respectively side elevations of the crown-wire, the ear-wire, and the neck-wire detached. Fig. VII is an enlarged plan of one end of the crown-wire detached, showing the application of the cushioning-tube to its end. Fig. VIII is a vertical section through the margin of the hood. Fig. IX is a side elevation, with portions in section, of the guide-plate and means for supporting it on the chair. Fig. X is a rear elevation of a portion of the preceding figure enlarged. Fig. XI is a rear elevation of a portion of Fig. IX, further enlarged, with portions shown in section.

In the figures, 1 indicates the sheet or the hood, made of any suitable elastic waterproof material, but preferably of pure gum-rubber, having a curved margin formed around its front by a perpendicular band 3, whose rear ends are provided with protruding end wires 4 4, fitting sockets 5 5 on the guide-plate, whereby the weight of the hood is supported on the guide-plate and an in-and-out adjustment permitted to a limited extent, so that the hood may be smoothly adjusted to accommodate patients of different sizes, stout or thin, and having larger and smaller heads. This marginal band 3, like all the metallic parts, is preferably covered with rubber and

forms a trough or channel 7 between it and the hood to receive the water and to deliver it into the loose integral apron 8 at the rear resting on the inclined guide-plate, whence the water flows into any convenient receptacle.

A characteristic feature and important improvement of my present invention are the reinforcing-wires, whose elastic cushioned ends grip the head and hold the loose edge of the oval opening snug and firm against the head at all points, exposing all the hair to be cleansed, but absolutely preventing any leakage or escape of water or lather onto the clothing or into the eyes, nose, &c., and permitting the hair to be cleansed and rinsed while the patient is sitting in a normal position in the chair without removing any of his or her clothing and without the discomfort of rising and leaning over a basin, &c. The crown-wire and the ear-wire are the more important; but I prefer also to use a shorter neck-wire and straps attached to the end thereof to draw the rear portion of the edge into the neck and to maintain the front of the hood in elevated position when in use, as best shown in the drawings.

10 is the crown-wire, curved around the forehead at a little distance therefrom and having its cushioned ends 11 11 turned in and forward and bent slightly down to about the hair-line of the temples, the better to grip and fill the hollows at that point. The ear-wire 13 is arranged similarly in a curve around the back of the head, with its cushioned ends 14 14 turned in and forward and bent slightly up to hold the edge of the opening close down over and behind the ears to fill those hollows and also to hold the rubber sheet up from the ears. The third or neck wire 16 is shorter and commonly somewhat less than a semicircle, having angular ends 17 17 bent in and out, as shown in the drawings, to engage with the sides of the neck to fill the hollows therein. The form of these wires is best shown in Figs. II to VII. These wires are made of spring-steel or other resilient material to grip the head with a gentle but sufficient pressure and are secured to one surface of the rubber sheet by means of extra reinforcing-strips 18 18, which are vulcanized in position. The ends of these wires are cushioned by bits of tubing 20 or in other suitable way, so as to exert pressure that will be not unpleasant to the patient.

At the rear of the opening a single pair of straps 22 is secured to the sheet at about the ends of the neck-wire and is provided with a button or other fastening means and a flap or guard 23 to protect the patient therefrom, whereby the back of the hood is held in against the neck and the entire hood maintained in suitable inclined position, as aforesaid.

The opening of oval form is provided with a loose edge 25 within the ends of the wires, preferably reinforced by three or four thick-

nesses of rubber, which is best shown in Fig. VII, as it rests above the brows and extends over and down back of the ears and around the neck, following the contour of the head, so as to expose all the hair above the hood that it may be conveniently washed. It is desirable to so set the hood on the head that this edge will turn up, as shown in Fig. III, the better to insure against leaking.

As shown in Fig. VIII, the front margin of the hood may be formed by the wire 26, having the integral ends 4 4. Around this wire is bent the lower edge of the band 3, which is then covered and protected by the rubber covering 27 and secured to the front edge of the sheet 1.

The guide or trough plate carrying the hood is preferably secured on a chair 30, to which may be screwed or clamped the arm 31, having a socket 32 and set-screw 33 to receive and support the rod 34, so that the guide-plate carried on the rod may be adjusted at any desirable height.

At 36 is a loose joint permitting the guide-plate and hood to follow the head as the patient turns naturally from side to side, thus avoiding constraint and distortion of the head during the operation.

Clamping-plate 38 on the upper end of the rod is clamped by thumb-screw 39 against the friction-plate 40, to which the guide-plate is immediately attached, thus permitting a suitable angular adjustment of the guide-plate.

To use my invention, the screws are loosened and the hood set on the head of the patient, sitting in normal position, with the edge of the opening upwardly turned, whereby the hood is fixed in normal position with the proper vertical, angular, and lateral adjustment, in which it is maintained securely by the tightening of the screws until the operation is completed.

My invention has proved very successful in practical operation, the sheet being maintained rigidly and snugly against the head and yet with a gentle pressure. Freedom of movement is permitted to the wearer, and the hood is firmly sustained without danger of being forced down by the weight of the water.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a shampooing-hood, the combination with two substantially semicircular reinforcing-wires, having inwardly-bent ends to engage with the sides of the head and arranged respectively at the front and rear of the head, of a sheet of elastic waterproof material secured to said wires and having an opening for the head, a vertical margin around the front of the sheet and a suitable support for the hood.

2. In a shampooing-hood, the combination with a crown-wire extending around the forehead at a distance therefrom and having in-

wardly-extending ends to engage with the temples, of an ear-wire extending around the back of the head at a distance therefrom and having inwardly-extending ends to engage with the sides of the head back of the ears, a rubber sheet secured to said wires and having an opening for the head, a curved marginal band secured to the front of the sheet, and a support for the hood.

3. In a shampooing-hood, the combination with two substantially semicircular reinforcing-wires, having inwardly-bent ends to engage with the sides of the head and arranged respectively at the front and rear of the head, of a sheet of elastic waterproof material secured to said wires and having an opening for the head, a substantially rigid curved band forming a margin secured to the front of the sheet, a suitable support for the hood, and means for detachably connecting the hood to the support.

4. In a shampooing-hood, the combination with a curved crown-wire extending around the forehead at a distance therefrom and having its rear ends first inwardly turned, then forwardly turned and downwardly bent to engage with the temples, of a curved ear-wire extending around the back of the head at a distance therefrom and having its front ends first inwardly turned, then forwardly turned and slightly upwardly bent to engage with the sides of the head back of the ears, a rubber sheet secured to the wires and having an opening for the head and a rearwardly-extending loose apron, a curved marginal band secured to the front of the sheet and a support for the hood.

5. In a shampooing-hood, the combination with a curved crown-wire extending around the forehead at a distance therefrom and having its rear ends first inwardly turned, then forwardly turned and slightly downwardly bent to engage with the temples, of a curved ear-wire extending around the back of the head at a distance therefrom and having its front ends first inwardly turned, then forwardly turned and slightly upwardly bent to engage with the sides of the head back of the ears, a rubber sheet secured to the wires and having an opening for the head and a rearwardly-extending loose apron, a substantially rigid, curved marginal band secured to the front of the sheet, around the crown-wire and at a small distance therefrom, a support for the hood and means connected to the marginal band for detachably and adjustably sustaining the hood on the support.

6. In a shampooing-hood, the combination with two substantially semicircular reinforcing-wires, having inwardly-bent ends to engage with the sides of the head and arranged respectively at the front and rear of the head, of a sheet of elastic waterproof material secured to said wires and having an opening for the head, a curved band forming a margin

secured to the front of the sheet, a guide-plate rearwardly arranged on the hood and rearwardly-protruding ends on the curved band to engage with corresponding sockets on the plate.

7. In a shampooing-hood, the combination with a crown-wire extending around the forehead at a distance therefrom and having inwardly-extending ends to engage with the temples, of an ear-wire extending around the back of the head at a distance therefrom and having inwardly-extending ends to engage with the sides of the head back of the ears, a rubber sheet secured to said wires and having an opening for the head, and a curved marginal band secured to the front of the sheet and arranged around the front of the head outside of the crown-wire.

8. In a shampooing-hood, the combination with two substantially semicircular reinforcing-wires, having inwardly-bent ends to engage with the sides of the head and arranged respectively at the front and rear of the head, of a smaller curved third wire arranged within the rear wire and having ends to engage with the sides of the neck, a sheet of elastic waterproof material secured to said wires and provided with an opening for the head, a vertical margin around the front of the sheet and a suitable support for the hood.

9. In a shampooing-hood, the combination with two substantially semicircular reinforcing-wires, having inwardly-bent ends to engage with the sides of the head and arranged respectively at the front and rear of the head, a third wire arranged within the rear wire and having inwardly-bent ends to engage with the sides of the neck, a sheet of elastic waterproof material secured to said wires and having an opening for the head, a curved band forming a margin secured to the front of the sheet, a loose integral apron on the rear of the sheet, and a suitable support for the hood.

10. In a shampooing-hood, the combination with two substantially semicircular reinforcing-wires, having inwardly-bent ends to engage with the sides of the head and arranged respectively at the front and rear of the head, of a smaller wire arranged within the rear wire and having ends arranged to engage with the sides of the neck, a sheet of elastic waterproof material secured to said wires and having an opening for the head, a curved band forming a vertical margin secured to the front of the sheet, a single pair of straps secured to the sheet at about the ends of the smaller wire, and a suitable support for the hood.

11. In a shampooing-hood, the combination with a crown-wire extending around the forehead at a distance therefrom, and having inwardly-extending ends to engage with the temples, of an ear-wire extending around the back of the neck at a distance therefrom and having inwardly-extending ends to engage with the sides of the head back of the ears, a smaller

neck-wire arranged within the ear-wire and having inwardly-extending ends to engage with the sides of the neck, a rubber sheet secured to said wires and having an opening for the head, a curved marginal band secured to the front of the sheet, and a support for the hood.

12. In a shampooing-hood, the combination with a crown-wire extending around the forehead at a distance therefrom and having inwardly-extending ends to engage with the temples, of an ear-wire extending around the back of the head at a distance therefrom and having inwardly-extending ends to engage with the sides of the head back of the ears, a smaller curved third wire arranged within the rear wire and having ends inwardly turned to engage with the sides of the neck, a rubber sheet secured to said wires and having an opening for the head, a loose edge to the sheet arranged within the wire ends around the opening, a curved marginal band secured to the front of the sheet, and a support for the hood.

13. In a shampooing-hood, the combination with a crown-wire extending around the forehead at a distance therefrom and having inwardly-extending ends to engage with the temples, of an ear-wire extending around the back of the head at a distance therefrom and having inwardly-extending ends to engage with the sides of the head back of the ears, a smaller curved third wire arranged within the rear wire and having ends inwardly turned to engage with the sides of the neck, said wires being arranged in substantially the same plane, a rubber sheet secured to said wires and having an opening for the head, a curved marginal band secured to the front of the sheet, a loose integral apron on the rear of the sheet, and a support for the hood.

14. In a shampooing-hood, the combination with a crown-wire extending around the forehead at a distance therefrom and having inwardly-extending ends to engage with the temples, of an ear-wire extending around the back of the head at a distance therefrom and having inwardly-extending ends to engage with the sides of the head back of the ears, a smaller third wire arranged within the rear wire and having ends inwardly turned to engage with the sides of the neck, a rubber sheet secured to said wires and having an opening for the head, a curved marginal band secured to the front of the sheet, a pair of straps secured to the sheet at about the ends of the third wire, and a support for the hood.

15. In a shampooing-hood, the combination with a curved crown-wire extending around the forehead at a distance therefrom and having its rear ends first inwardly turned, then forwardly turned and slightly downwardly bent to engage with the temples, of a curved ear-wire extending around the back of the head at a distance therefrom and having its front ends first inwardly turned, then forwardly

wardly turned and slightly upwardly bent to engage with the sides of the head back of the ears, a smaller curved neck-wire arranged within the ear-wire and having inwardly-curved ends to engage with the sides of the neck, a rubber sheet secured to the wires and having an opening for the head and a rearwardly-extending loose apron, a curved band forming a vertical margin, secured to the front of the sheet and extending around the front of the head outside of the crown-wire, a pair of straps attached to the sheet at about the ends of the neck-wire, a fastener on the straps, a guide-plate rearwardly arranged on the hood and having sockets on its front ends, and rearwardly-protruding ends on the band to engage with said sockets.

16. In a shampooing-hood, a rubber hood having an opening to fit the head and wires embedded in and connected to the rubber to hold the hood snug to the head and form a channel around its front portion, of a supporting guide-plate and means to attach the hood thereto, a friction-plate secured to the under surface of the guide-plate, a corresponding clamping-plate fitted to the friction-plate and supported to turn freely on the upper end of a rod, a set-screw fitted to the clamping-plate and friction-plate and adapted to clamp them together, the rod, an integral arm and sleeve adapted to be secured to a chair-back and to receive the rod, and a thumb-screw in the sleeve to secure the rod therein and maintain the guide-plate at an adjustable height.

17. In a shampooing-hood, the combination with two substantially semicircular reinforcing-wires, having inwardly-bent ends to engage with the sides of the head and arranged respectively at the front and rear of the head, of a sheet of elastic waterproof material secured to said wires and having an opening for the head, a curved band forming a vertical margin secured to the front of the sheet, rearwardly-protruding ends on the band, a curved guide-plate rearwardly arranged on the hood and having sockets at its front to receive the protruding ends, a friction-plate secured to the under surface of the guide-plate, a corresponding clamping-plate fitted to the friction-plate and supported to turn freely on the upper end of a rod, a set-screw fitted to the clamping-plate and friction-plate and adapted to clamp them together, said rod, an integral arm and sleeve adapted to be secured to a chair-back and to receive the rod, and a thumb-screw in the sleeve to secure the rod therein and maintain the guide-plate at an adjustable height.

18. In a shampooing-hood, the combination with a curved crown-wire extending around the forehead at a distance therefrom and having its rear ends first inwardly turned and then forwardly turned and slightly downwardly bent to engage with the temples, of a curved ear-wire extending around the back

of the head at a distance therefrom and having its front ends first inwardly turned and then forwardly turned and slightly upwardly bent to engage with the sides of the head back of the ears, a rubber sheet secured to the wires and having an opening for the head and a rearwardly-extending loose apron, a curved marginal band secured to the front of the sheet, rearwardly-protruding ends on said band, a guide-plate having sockets to receive said protruding ends, a friction-plate secured to the under surface of the guide-plate, a corresponding clamping-plate fitted to the friction-plate and supported to turn freely on the upper end of a rod, a set-screw fitted to the clamping-plate and friction-plate and adapted to clamp them together, said rod, an integral arm and sleeve adapted to be secured to a chair-back and to receive the rod, and a thumb-screw in the sleeve to secure the rod therein and maintain the guide-plate at an adjustable height.

19. In a shampooing-hood, the combination with a substantially semicircular wire of larger diameter than the head, arranged at the front of the hood and having its rearwardly-arranged ends turned inwardly substantially at right angles to the body of the wire and then turned forwardly substantially at right angles to the inwardly-turned bent portions and bent slightly downwardly to engage with the temples, of a substantially semicircular ear-wire of a similar diameter to the crown-wire, to be arranged at the rear of the head and having its forwardly-arranged ends turned inwardly substantially at right angles to the body of the wire, and then turned forwardly substantially at right angles to the turned-in portions and bent slightly upwardly to engage with the head back of the ears, a smaller curved neck-wire arranged within the ear-wire and having its ends bent in to engage with the sides of the neck, said wires having pieces of rubber tubing arranged on their ends engaging with the head, a rubber sheet secured to said wires, and formed with an oval opening to fit the head and a loose reinforced edge around the opening within the wire ends, a vertical substantially rigid, marginal band secured to the front of the sheet outside of the crown-wire and having rearwardly-protruding ends, a single pair of straps secured to the sheet at about the ends of the neck-wire and fastening means on the straps, a curved guide-plate having sockets on the front of its side edges fitted to receive the protruding ends, an integral loose apron on the sheet resting on the plate, and means to support the guide-plate at an adjustable height and angle on a suitable support.

20. In a shampooing-hood, the combination with a substantially semicircular wire of larger diameter than the head, to be arranged at the front of the head and having its rearwardly-arranged ends turned inwardly substantially

at right angles to the body of the wire and then turned forwardly substantially at right angles to the inwardly-turned portions and bent slightly downwardly to engage with the temples, of a substantially semicircular ear-wire of a similar diameter to the crown-wire, to be arranged at the rear of the head and having its forwardly-arranged ends turned inwardly substantially at right angles to the body of the wire and then forwardly substantially at right angles to the inwardly-turned portions and bent slightly upwardly to engage with the head back of the ears, a smaller curved neck-wire arranged within the ear-wire and having its ends bent in and then out in the plane of the body of the wire to engage with the neck, said wires being arranged in substantially the same plane and having pieces of rubber tubing arranged on their ends engaging with the head, a rubber sheet, reinforcing-strips of rubber cemented to one surface of the sheet and securing the wires between them and the body of the sheet, so that the whole of said wires are covered by the rubber, said sheet being formed with an oval opening to fit the head and a loose reinforced edge around the opening within the wire ends, a curved reinforcing-wire arranged around the front of the sheet outside of the crown-wire, and having rearwardly-protruding ends, a vertical metallic band secured to said reinforcing-wire, a rubber covering said reinforcing-wire and band by which they are secured to the sheet, a single pair of straps secured to the under surface of the sheet at about the ends of the neck-wire and fastening means on the straps, a curved guide-plate having sockets on the front of its side edges fitted to receive the protruding wire ends, an integral loose apron on the sheet resting on the plate and means to support the guide-plate at an adjustable height and angle on a suitable support.

21. In a shampooing-hood, the combination with a substantially semicircular wire of larger diameter than the head, arranged at the front of the head, and having its rearwardly-arranged ends turned inwardly substantially at right angles to the body of the wire, and then forwardly substantially at right angles to the inwardly-turned portions and bent slightly downwardly to engage with the temples, of a substantially semicircular ear-wire of a similar diameter to the crown-wire, to be arranged at the rear of the head, and having its forwardly-arranged ends turned inwardly substantially at right angles to the body of the wire, and then forwardly substantially at right angles to said turned-in portions and bent slightly upwardly to engage with the head back of the ears, a smaller curved neck-wire arranged within the ear-wire and having its ends bent in and then out in the plane of the body of the wire, to engage with the neck, said wires being arranged in substantially the

same plane and having pieces of rubber tubing
arranged on their ends engaging with the head,
a rubber sheet, reinforcing - strips of rubber
cemented to one surface of the sheet and se-
5 curing the wires between them and the body
of the sheet, so that the whole of said wires
are covered by the rubber, said sheet being
formed with an oval opening to fit the head
and a loose reinforced edge around the open-
10 ing within the wire ends, a curved reinforcing-
wire arranged around the front of the sheet
outside of the crown-wire, and having rear-
wardly-protruding ends, a vertical metallic
band secured to said reinforcing-wire, a rub-
15 ber covering for said reinforcing-wire and
band by which they are secured to the sheet,
a pair of straps secured to the sheet at about
the ends of the neck-wire, and a fastening
means to secure the straps around the neck,
20 a curved guide-plate having sockets on the

front of its side edges fitted to receive the pro-
truding wire ends, an integral loose apron on
the sheet resting on the plate, a friction-plate
secured to the under surface of the guide-
plate, a corresponding clamping-plate fitted 25
to the friction-plate and supported to turn
freely on the upper end of a rod, a set-screw
fitted to the clamping-plate and friction-plate
and adapted to clamp them together, the rod,
an integral arm and sleeve adapted to be se- 30
cured to a chair-back and to receive the rod,
and a thumb-screw in the sleeve to engage
with the rod therein and maintain the guide-
plate at an adjustable height.

In testimony whereof I affix my signature in 35
presence of two witnesses.

WILLIAM J. H. WALTERS.

Witnesses:

C. C. SCHOENECK,
M. B. SMITH.