B. H. NICHOLS.

HAT.

APPLICATION FILED OCT. 15, 1910.

1,062,025. Patented May 20, 1913.

Fig. 1.

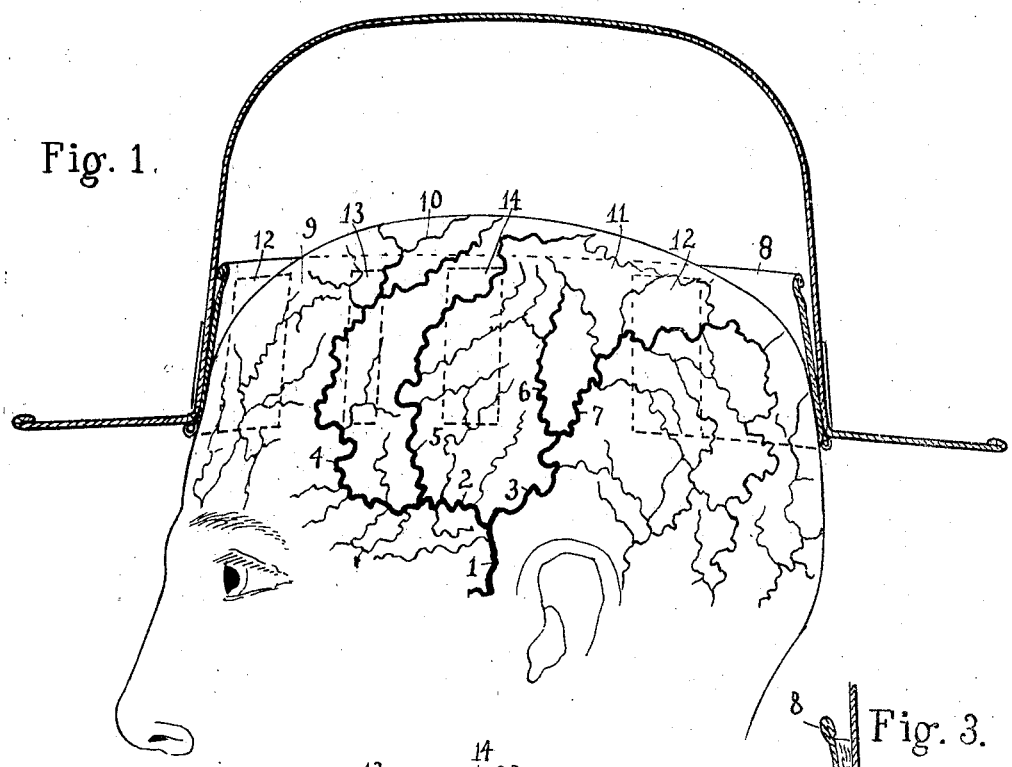


Fig. 3.

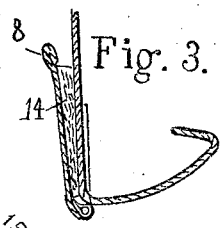
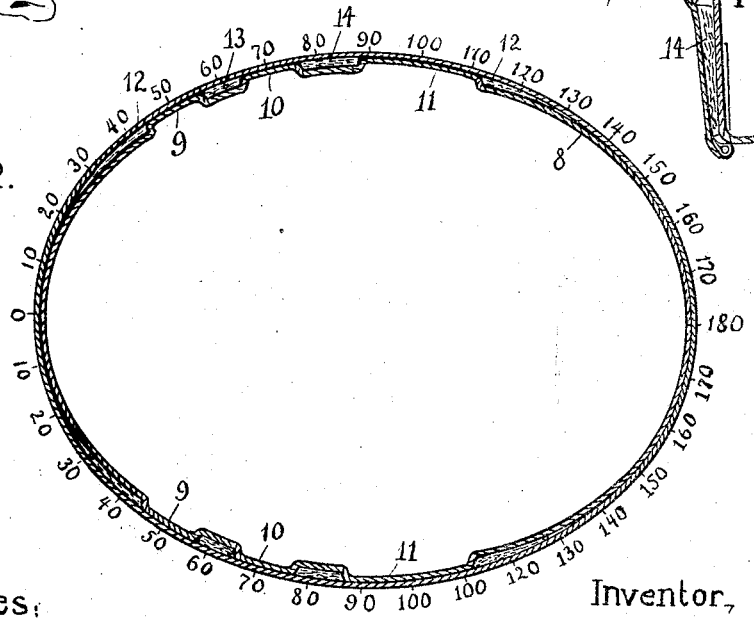


Fig. 2.



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UNITED STATES PATENT OFFICE.

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HAT.

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To all whom it may concern:

Be it known that I, BERNARD H. NICHOLS, a citizen of the United States of America, and a resident of Ravenna, county of Portage, and State of Ohio, have invented certain new and useful Improvements in Hats, of which the following is a specification.

My invention relates broadly to the prevention and cure of premature baldness.

The object of the invention is the production of a hat which is adapted to fit upon the head in such a manner as not to interfere with the free circulation of blood to the scalp, and at the same time so constructed as to be worn without discomfort, and without causing a temporary unseemly marking on the forehead or scalp of the wearer where it comes in contact therewith, when the hat is removed.

Blood is normally supplied to the hair cells and skin of the scalp by two main arteries on each side of the skull which are branches of the temporal artery. Each of these branches, the anterior and the posterior temporal arteries, are again subdivided into two other large vessels, which lie close to the surface of the scalp and are but a short distance from the skull and which branch out into innumerable small vessels and capillaries permeating the scalp. My invention aims to produce a hat having depressions in the contacting portions thereof which will lie over such of said vessels and thereby prevent compression of them, that the nutrition of the hair cells and skin is not materially lessened by its wear.

In the accompanying sheet of drawings which forms a part of this specification—Figure 1 is a side elevation of a head showing the chief arteries which supply blood to the scalp, and a vertical cross-section of a hat made in accordance with my invention. Fig. 2 is a horizontal cross-section of a hat so made; and Fig. 3 is a vertical cross-section partly broken away illustrating a detail of my invention.

The temporal artery 1 branches into the anterior temporal artery 2 and the posterior temporal artery 3. The anterior temporal artery branches into a forward branch 4 and a rearward branch 5. The posterior temporal artery branches into a forward branch 6 and a rearward branch 7. In by far the majority of heads the forward branch 4 of the anterior temporal artery crosses the normal line of contact of the hat with the head at a point approximately 50 degrees of arc from the anterior-posterial diameter of the head measuring from the front, and the rearward branch 5 crosses at a point approximately 70 degrees of arc therefrom. The forward branch 6 and the rearward branch 7 of the posterior temporal artery lie closer together than the corresponding branches of the anterior artery, and a point midway between them crosses at approximately 100 degrees of arc from that diameter measured in the same manner.

The hat-band 8 has depressions 9, 10 and 11 at these points respectively, which depressions are of sufficient width to allow for such deviation from these points as are likely to occur in the position of the branches 4, 5, 6 and 7 among normally shaped heads. These depressions are conveniently made by raising those portions of the band adjoining them and backing the raised portions with felt 12, 13 and 14.

To compensate for the varying pressure due to the different degrees of tightness with which hats are worn, and to assure that the rear walls of the depressions 9, 10 and 11 will never be brought into harmful contact with the scalp, these pieces of felt may conveniently be made tapering from the top to the bottom. This adds greatly to the appearance of the hat as the resilience and thickness of the felt can be so gaged that the hat-band appears to be in contact with the head at all points while the actual weight and pressure is so distributed as to avoid the vessels 4, 5, 6 and 7. The felt backing 12 may conveniently have an additional sidewise taper in a direction away from the adjoining depressions which form the band at the front and the rear of the hat.

While I have particularly described my invention as applied to a hat-band it is to be understood that I do not intend to limit it thereto, my invention being adapted to all manner of head-dress intended to fit the head whether with or without a band. Nor do I intend to limit myself to the series of depressions for my invention contemplates the adjustment of the pressure upon all

manner of head-dress intended to fit the head in such manner that the blood supply to the scalp is not interfered with.

What I claim as new and desire to secure by Letters Patent of the United States is,—

As a new and improved article of manufacture, a band for a hat having corrugations on the sides thereof which form protrusions and depressions, the depressions being at points 50, 70 and 100 degrees of arc from the front point of the hat, the front and rear protrusions tapering toward the front and rear of the hat respectively, and backing for the protrusions, substantially as described.

Signed at New York, N. Y., this 14th day of October, 1910.

BERNARD H. NICHOLS.

Witnesses:

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SAMUEL W. BALCH.