No. 804,366. PATENTED NOV. 14, 1905.

G. BAUSCH.

NOSE GUARD FOR EYEGLASSES.

APPLICATION FILED OCT. 16, 1903.

Fig. 1.

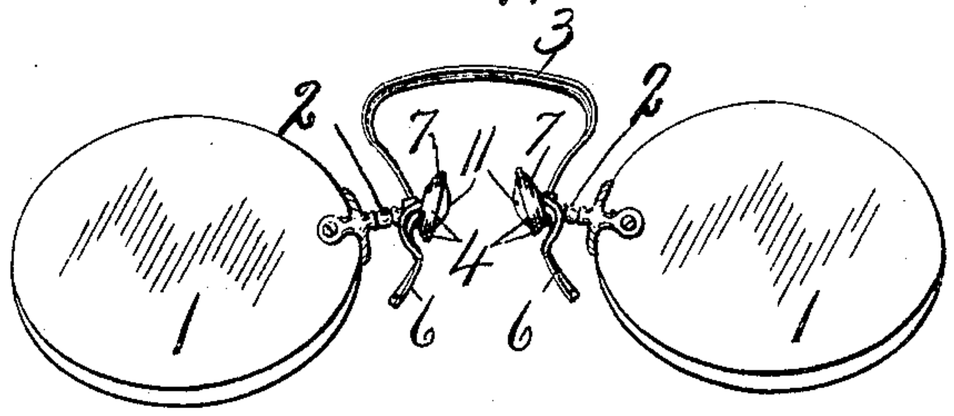


Fig. 2.

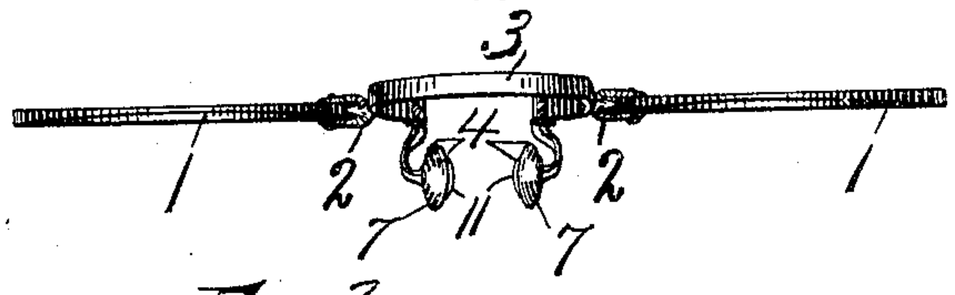


Fig. 3.

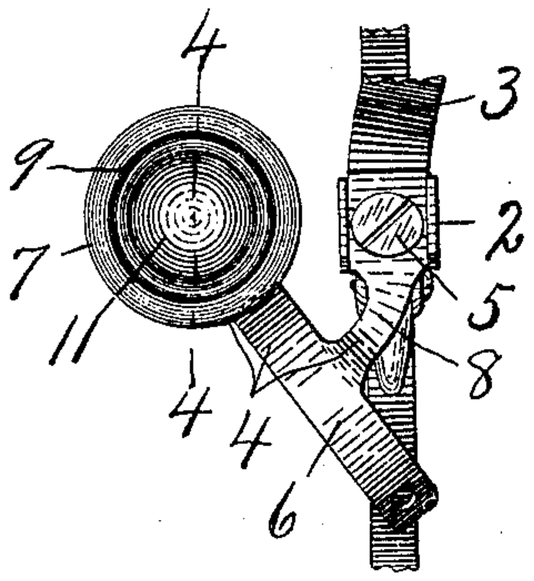
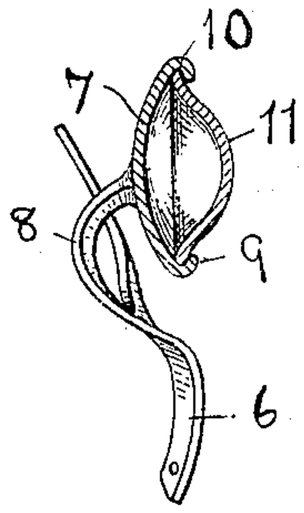


Fig. 4.



WITNESSES.
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NOSE-GUARD FOR EYEGLASSES.

No. 804,366. Specification of Letters Patent. Patented Nov. 14, 1905.

Application filed October 16, 1903. Serial No. 177,312.

To all whom it may concern:

Be it known that I, GEORGE BAUSCH, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Nose-Guards for Eyeglasses, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to improvements in nose-guards for eyeglasses in which a pair of pneumatic pads are suitably mounted upon the frame to impinge against the sides of the upper part of the nose to hold the eyeglasses in operative position.

The object is to reduce the gripping pressure on the nose to a minimum and still prevent the glasses from being easily displaced or shaken off under ordinary usage.

Another object is to enable the pads to readily conform to the contour of the surface of the nose of the wearer without special adjusting or fitting.

A further object is to insert the pads in suitable cup-holders so that they may be removed and replaced by new ones whenever necessary or desirable.

Other uses and objects will appear in the following description.

In the drawings, Figures 1 and 2 are respectively a rear face view and a top plan of a pair of eyeglasses, showing the application of my invention thereto. Fig. 3 is an enlarged inner face view of one of the detached nose-guards, showing part of the frame and one of the glasses. Fig. 4 is a sectional view taken on line 4 4, Fig. 3.

Similar reference characters indicate corresponding parts in all the views.

The eyeglasses, as 1, are mounted in separate clamps 2, which in turn are secured to the opposite ends of a bow-spring 3 to form the supporting frame or yoke for the glasses. A pair of nose-guards 4 are also secured to clamps 2 and preferably by the same means as screws 5, which secure the ends of the spring to the clamps 2. These nose-guards are substantially duplicates of each other, and each consists of a thin metal bar 6, having a cup or hollow circular head 7 and a laterally upwardly projecting arm 8, which is secured directly to its clamp 2 by means of one of the screws 5. Each nose-guard is therefore suspended from the screw 5 and is free to spring laterally, and the bars 6 are usually disposed in a vertically-inclined position both longitudinally and transversely with reference to the glasses, so that the cups or heads 7 are nearer to each other than the lower ends of the bars 6 and project beyond the plane of the rear face of the glasses to hold the latter a suitable distance from the eyes when in use.

The cups or heads 7 preferably consist of thin sheet-metal disks which are concavo-convex in cross-section, as seen in Fig. 4, and are each provided with an overturned edge for forming an annular marginal flange 9 on the concave side of the disk and an annular groove 10 within the flange. Each of these cups or heads is provided with a circular concavo-convex pad 11, of rubber or equivalent material, having its marginal edge inserted in under the flange 9 in the groove 10 with its concave side innermost and facing the concave face of its supporting disk or head 7.

The open or concave sides of the cups or heads 7 face each other, and the pads or cushions 11 are, therefore, inserted in the adjacent faces of the heads and held in position by the flanges 9. The adjacent or convex faces of the pads bulge or project toward each other beyond the adjacent inner faces of their respective cups or heads, and it is thus apparent that an air-chamber is formed between the concave faces of the cup or head and its pad, which constitutes a pneumatic cushion to keep the pad inflated or extended inwardly. Each of these pads 11 is first formed into a plain circular disk of greater diameter than the diameter of the groove in which it is to be inserted, so that when its edges are inserted in behind the flange the central portion is buckled or bulged outwardly, and the air which is thus inclosed in the cup or head 7 operates to maintain this bulge or outward convexity. By this construction of cup or head and pad the latter may be easily and quickly removed and a new one reinserted whenever it may be necessary or desirable.

It will be observed that the flexible concavo-convex pad, as rubber, not only affords a light and easy pressure on the nose of the user without the usual "pinching" effect, but also holds the glasses in operative position with greater certainty than when metal or other hard nose-pads are employed.

The bar 6, carrying the cup or head 7, is provided with a loop or bend 12 between the cup or head 7 and arm 8, whereby the heads in which the pads 11 are inserted may be adjusted vertically or laterally by simply compressing or extending the loops or bending

the portion upon which the heads are mounted laterally. This permits the nose-pieces and eyeglasses to be readily and easily adjusted with reference to each other and to the nose or eyes of the wearer, and it is an important feature of my invention.

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

1. The combination with the bow-spring and lens-clamps of a frame for eyeglasses, of a pair of hollow circular heads connected to the lens-clamps and having open sides facing each other, the open side of each head having an inturned annular flange forming an annular groove, and flexible pads removably inserted in the open sides of the heads and having their marginal edges seated in their respective grooves and their central portions bowed outwardly to form air-spaces between them and their heads.

2. The combination with a lens-supporting frame for eyeglasses, of a pair of substantially circular heads mounted on the frame and each having its edge overturned and forming an annular flange and an annular groove, a compressible and expansible pad for each head, each pad being compressed and inserted in its head and entering and held in its groove solely by its own expansion whereby the pad may be removed or reinserted at will.

In witness whereof I have hereunto set my hand this 13th day of October, 1903.

GEORGE BAUSCH.

Witnesses:
H. E. CHASE,
HOWARD P. DAWSON.