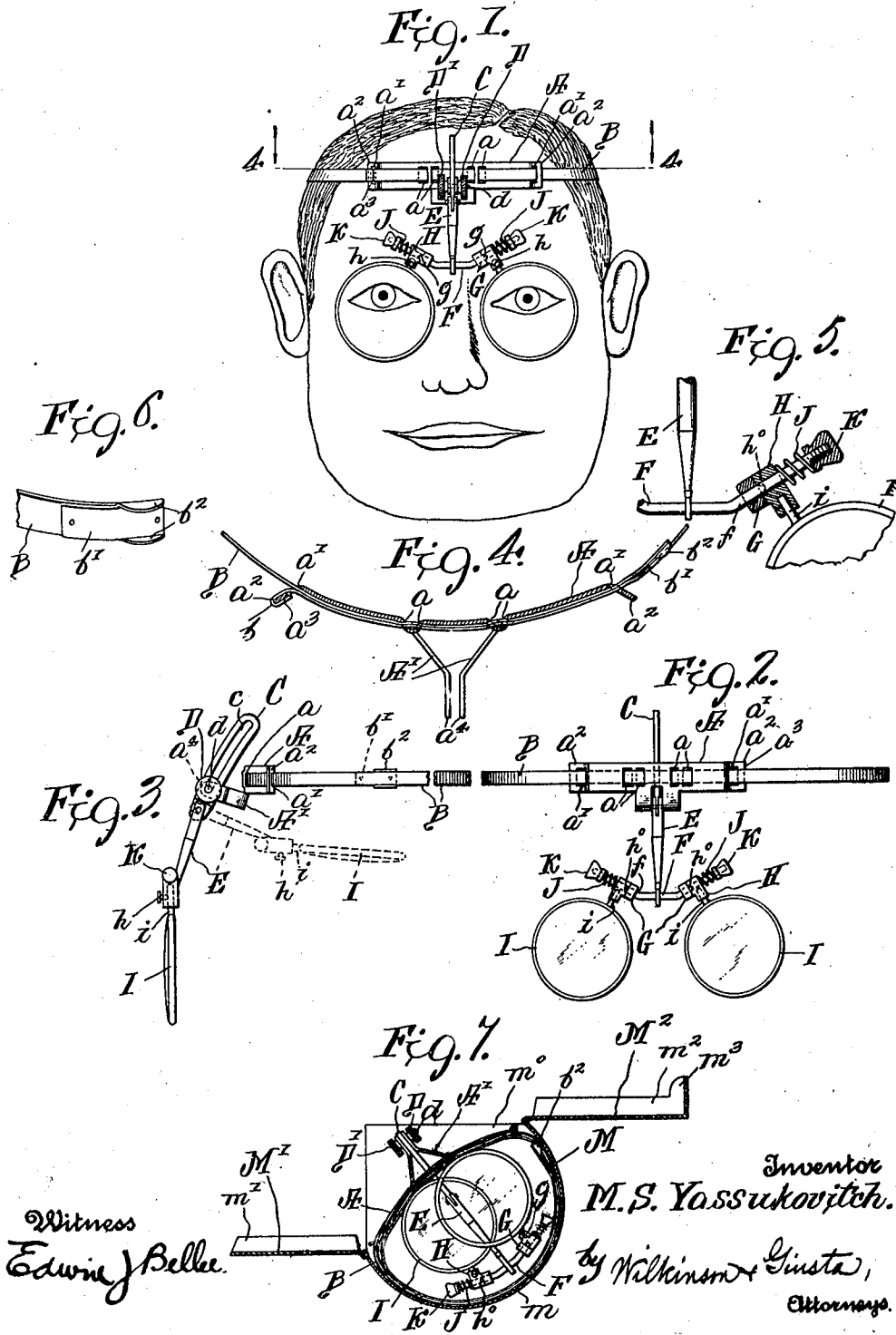


M. S. YASSUKOVITCH.
ADJUSTABLE EYEGLASSES.
APPLICATION FILED JULY 24, 1918.

1,289,998.

Patented Dec. 31, 1918.



UNITED STATES PATENT OFFICE.

MICHEL STANISLAUS YASSUKOVITCH, OF NEW YORK, N. Y.

ADJUSTABLE EYEGLASSES.

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Specification of Letters Patent.

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Application filed July 24, 1918. Serial No. 246,505.

To all whom it may concern:

Be it known that I, MICHEL STANISLAUS YASSUKOVITCH, a Russian subject, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Adjustable Eyeglasses; 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 present invention relates to improvements in adjustable eyeglasses, and it is intended to provide an arrangement which may be supported on the upper portion of the head of the wearer, without pinching the nose or irritating the ears of the wearer; and in which the eyeglasses may be safely held in place without any possible danger of their dropping off while in use.

My invention is intended more particularly for shop or office use, where it is necessary to use the eyes continuously and where the glasses as ordinarily constructed are apt to either give discomfort, or are liable to fall off.

According to my invention I combine safety for the glasses and comfort to the wearer.

My invention will be more fully understood after reference to the accompanying drawings, in which like parts are indicated by similar reference symbols throughout the several views, and in which:

Figure 1 shows the complete apparatus as in use by the wearer.

Fig. 2 is a rear view of the apparatus as detached from the head of the wearer, with the head band broken away.

Fig. 3 is a side elevation of the complete apparatus, with the head band broken away.

Fig. 4 shows a section along the line 4-4 of Fig. 1 of the frame and head band, the glasses being omitted.

Fig. 5 is a view on a larger scale of a portion of one of the glasses and its supporting arm, parts being broken away.

Fig. 6 is a detail showing the free end of the head band, with the guide attachment connected thereto; and

Fig. 7 shows the complete apparatus folded up in a case, the case being shown as open.

A represents the main frame made of sheet metal, sufficiently flexible to fit snugly to the head of the wearer when in use. This

main frame is provided with guide slots a and a' , through which passes the head band B and the ends of this frame are turned outward as at a^2 and a^3 .

The head band B is rove double through these guide slots a and a' , as shown in Fig. 4, and one end b of the head band is then attached to the main frame, as at a^2 , see Fig. 4, while the other end carries the guide piece b' having outwardly projecting guide lugs b^2 , as shown in Figs. 4 and 6. This head band is made of resilient metal, preferably steel, plated with nickel or other metal that will not oxidize and will not stain the head of the wearer.

The guide lugs b^2 serve also as a convenient handle by means of which the head band may be adjusted to the head of the wearer.

Projecting from the lower edge of the head band I provide two lugs A' with parallel outer ends a^4 , forming a bracket between which outer ends the arcuate member C is adjustably held as by means of the clamp screw D and the pin d which projects through the slot c in the arcuate member C.

For convenience in clamping this arcuate member to the desired position, I provide a knurled head D' on this pin d so that the said pin may be held against turning while the clamp screw D is being turned.

Hinged to the arcuate member C is the supporting post E, and the joint between the two should be stiff enough so that this supporting post will remain in the position at which it is set.

Fast to the lower end of the supporting post E is the bent shaft F, having two divergent arms f on which arms the locking blocks G are fast. Each of these blocks has a tongue or catch g adapted to engage in one or the other of the notches h^0 which are provided on opposite sides of the block H carrying the eyeglass rim.

The eyeglass rim I is shown as provided with a lug i engaging in a socket in the block H, and secured thereto by means of the set screw h . The block H is normally snapped to the engaging position with the blocks G by means of the coil spring J mounted on the arms f and held in place by the screw head K, see Fig. 5.

In manufacturing the device, the arms f of the shaft F are bent so that the glasses will be at the proper position to suit the eyes of the individual by whom the device

is to be used. The lenses are then adjusted to the proper position with regard to the line of sight of each eye, by turning the lug *i* in its socket and clamping the same by means of the clamp screw *h*. The position of the glasses vertically, as also the distance of the glasses from the eyes, may be adjusted by easing up on the clamp screw *D* and setting the arcuate member *C* to the proper position.

It will only be necessary to make these various adjustments once for the same person, after which the parts will ordinarily remain in adjustment.

The complete apparatus may be fitted to the head of the wearer by moving the free end of the head band in or out.

It will be noted that the complete apparatus comprises a main frame and a head band for securing the same to the head of the wearer, and a secondary frame adjustably connected to the main frame and carrying the eyeglasses.

If desired, the apparatus may be hung up at the office or workshop in the adjusted position, but if desired to carry the same about, the same may be put into the position shown in Fig. 7 and inclosed in a suitable case.

I have designed such a case, indicated by *M* in Fig. 7, in which the bottom *m* is rounded and the top is open, having parallel sides *m*⁰, which open top may be closed by means of hinged covers *M*¹ and *M*². The hinged cover *M*¹ is preferably provided with flanges *m*¹ to engage the sides of the case, and the hinged cover *M*² is provided with similar flanges *m*² and with a transverse flange *m*³ which passes over the free end of the cover *M*¹ and forms a tight box.

In order to arrange the parts for assembling in the case, ease up on the clamp screw *D*, swing the glasses inward to the position shown in dotted lines in Fig. 3, draw in the free end of the head band and fold the parts in the position shown in Fig. 7.

When desired the complete apparatus may be readily removed from the case and the parts restored to the initial position shown in Fig. 1.

It will be obvious that if desired to use the eyeglasses for one eye only, the other eyeglass may be entirely omitted, or it may be swung forward and upward until the notch *h*⁰ engages with the latch *g*, when that particular lens will be held out of the line of sight. It may be promptly restored to the line of sight again by swinging the same down to the initial position.

While I have illustrated and described the apparatus in what I believe to be the preferred form, it will be obvious that various modifications might be made in the construction, combination and arrangement of parts which could be used without departing from the spirit of my invention.

Having thus described my invention what I claim and desire to secure by Letters Patent of the United States is:—

1. In adjustable eyeglasses, the combination with a main frame adapted to fit the forehead of the wearer and provided with guide slots and a forwardly projecting bracket, of a head band rove through said guide slots, said band having one end secured to said main frame and the other end provided with a guide piece having outwardly projecting lugs forming a guideway for the contiguous fold of said band, and a secondary frame carrying the eyeglasses adjustably connected to said bracket, substantially as described.

2. In adjustable eyeglasses, the combination with a main frame adapted to fit the forehead of the wearer and provided with guide slots and a forwardly projecting bracket, of a head band rove through said guide slots, and a secondary frame carrying the eyeglasses adjustably connected to said main frame, said secondary frame comprising an arcuate member adjustably connected to said bracket, a post hinged to said arcuate member, a shaft secured transversely of said post and having lateral divergent arms, and eyeglass rims supported from said arms, substantially as described.

3. In adjustable eyeglasses, the combination with a main frame adapted to fit the forehead of the wearer and provided with guide slots and a forwardly projecting bracket, of a head band rove through said guide slots, said band having one end secured to said main frame and the other end provided with a guide piece having outwardly projecting lugs forming a guideway for the contiguous fold of said band, and a secondary frame carrying the eyeglasses adjustably connected to said main frame, said secondary frame comprising an arcuate member adjustably connected to said bracket, a post hinged to said arcuate member, a shaft secured transversely of said post and having lateral divergent arms, and eyeglass rims supported from said arms, substantially as described.

4. In adjustable eyeglasses, the combination with a main frame adapted to fit the forehead of the wearer and provided with guide slots and a forwardly projecting bracket, of a head band rove through said guide slots, and a secondary frame carrying the eyeglasses adjustably connected to said main frame, said secondary frame comprising an arcuate member adjustably connected to said bracket, a post hinged to said arcuate member, a shaft secured transversely of said post and having lateral divergent arms, blocks journaled on said arms, eyeglass rims supported from said blocks, and a spring impressed catch arrangement carried by each arm to lock the corresponding block and the

eyeglass carried thereby in the proper position, substantially as described.

5. In adjustable eyeglasses, the combination with a main frame adapted to fit the forehead of the wearer and provided with guide slots and a forwardly projecting bracket, of a head band rove through said guide slots, said band having one end secured to said main frame and the other end provided with a guide piece having outwardly projecting lugs forming a guideway for the contiguous fold of said band, and a secondary frame carrying the eyeglasses adjustably connected to said main frame, said secondary frame comprising an arcuate member adjustably connected to said bracket, a post hinged to said arcuate member, a shaft secured transversely of said post and having lateral divergent arms, blocks journaled on said arms, eyeglass rims supported from said blocks, and a spring impressed catch arrangement carried by each arm to lock the corresponding block and the eyeglass carried thereby in the proper position, substantially as described.

6. In an adjustable holder for eyeglasses, the combination with a main frame and means for securing same to the head of the wearer, of a secondary frame adjustably connected to said main frame, said secondary frame comprising an arcuate member adjustably connected to said main frame, a post hinged to said arcuate member, a shaft secured transversely of said post and having lateral divergent arms, and eyeglass rims supported from said arms, substantially as described.

7. In an adjustable holder for eyeglasses, the combination with a main frame and means for securing same to the head of the wearer, of a secondary frame adjustably connected to said main frame, said secondary frame comprising an arcuate member adjustably connected to said main frame, a post hinged to said arcuate member, a shaft secured transversely of said post and having lateral divergent arms, blocks journaled on said arms, eyeglass rims supported from said blocks, and a spring impressed catch arrangement carried by each arm to lock the corresponding block and the eyeglass carried thereby in the proper position, substantially as described.

8. In an adjustable holder for eyeglasses, the combination with a main frame and means for securing same to the head of the wearer, of a secondary frame adjustably connected to said main frame, said second-

ary frame comprising an arcuate member adjustably connected to said bracket, a post hinged to said arcuate member, a shaft secured transversely of said post and having lateral divergent arms, set collars carried by said arms each provided with a catch, blocks journaled on said arms and provided with notches to engage said catch, coil springs carried by said arms and normally pressing said blocks into engagement with said catches, and eyeglass rims carried by said blocks, substantially as described.

9. In an adjustable holder for eyeglasses, the combination with a main frame and means for securing same to the head of the wearer, of a secondary frame adjustably connected to said main frame, said secondary frame comprising an arcuate member adjustably connected to said bracket, a post hinged to said arcuate member, a shaft secured transversely of said post and having lateral divergent arms, set collars carried by said arms each provided with a catch, blocks journaled on said arms and provided with notches to engage said catch, coil springs carried by said arms and normally pressing said blocks into engagement with said catches, and eyeglass rims adjustably connected to said blocks, substantially as described.

10. In an adjustable holder for eyeglasses, the combination with supporting means adapted to be carried by the wearer, of a shaft having lateral divergent arms, set collars carried by said arms each provided with a catch, blocks journaled on said arms and provided with notches to engage said catches, coil springs carried by said arms and normally pressing said blocks into engagement with said catches, and eyeglass rims carried by said blocks, substantially as described.

11. In an adjustable holder for eyeglasses, the combination with supporting means adapted to be carried by the wearer, of a shaft having lateral divergent arms, set collars carried by said arms each provided with a catch, blocks journaled on said arms and provided with notches to engage said catches, coil springs carried by said arms and normally pressing said blocks into engagement with said catches, and eyeglass rims having lugs adjustably connected to said blocks, substantially as described.

In testimony whereof, I affix my signature.

MICHEL STANISLAUS YASSUKOVITCH.