

J. Saxton.

Folding Opera Glass.

N^o 91,909.

Patented Jun. 29, 1869.

Fig. 1.

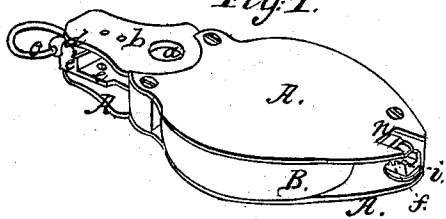


Fig. 2.

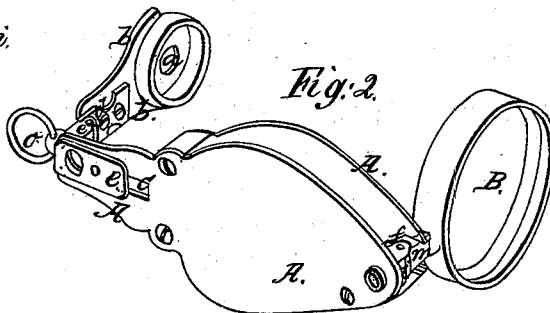
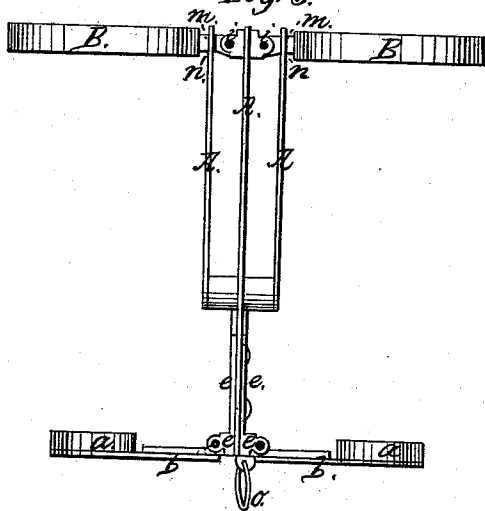


Fig. 3.



Witnesses.

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JOSEPH SAXTON, OF WASHINGTON, DISTRICT OF COLUMBIA.

Letters Patent No. 91,969, dated June 29, 1869.

IMPROVEMENT IN FOLDING OPERA-GLASSES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOSEPH SAXTON, of Washington city, in the District of Columbia, have invented certain new and useful Improvements in Folding Opera-Glasses; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents, in perspective, one of the glasses in question, as it appears when folded up;

Figure 2 represents, in perspective, the same glass, as it appears when opened out for use; and

Figure 3 represents a plan view of a binocular glass, constructed and operating on the same principle.

Similar letters of reference, where they occur in the several figures, denote like parts in all of the drawings.

The object and purpose of my invention is to make an opera or other similar, or similarly-used glass, so that it may be folded up into convenient and safe form to be carried in the pocket, or suspended to the person of the user, like a common eye-glass, and yet capable of use as an opera or field-glass, in addition to the ordinary uses of it as an eye-glass.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

The frame A of the glass may be made of metal, or of ivory, tortoise-shell, indurated rubber, or parts of any of them, or any other substance of sufficient strength, with lightness of material, and of such convenient shape and form as may be found most desirable.

The eye-glass *a* is attached to a hinged plate, *b*, which, when shut down, as seen in fig. 1, forms a part of the case, or frame, and which, when raised up, as seen in fig. 2, is adjustable on the frame, by means of a slot, *c*, through which it can be moved to suit the vision of the user.

The plate *b* is hinged, at the point *d*, to the slide *e*, which slide moves through or along the slot *c*, in adjusting the eye-glass *a*.

The large glass B is hinged, at *f*, to a turning-stud, or pin, *i*, so that it may, in the first place, be moved out from between the cheeks, or plates of the frame, and swung around until it comes against a stop, suit-

ably provided for the purpose, and then turned up into a position at right angles to the plane on which it was swung out, as seen in fig. 2, the lug, or projection *m*, on the rim of the glass B, taking into a slot, or opening, *n*, in the frame, by which it is steadied and held.

A ring, *o*, is fastened to the slide *e*, by which the glass may be suspended or attached to the person of the user, and this ring may be used for moving the slide with or by.

In fig. 3, I have shown two of the above-described glasses as united, so as to form a binocular opera-glass, capable of being folded up, opened out, and used in substantially the same manner as that just above described.

In the binocular glass, the two small glasses, *a a*, and their slides *e e*, should be united, so as to move to and from the larger glasses together; and, if found essential, the eye-glasses *a a* may be adjustable to and from each other, to adapt them to differently-spaced eyes.

Instead of the stud, or pin *i* turning, it may be rigid, and the frame of the glass B may have a hub, or sleeve on it, which will turn around the stud, or pin, and then, by the hinge *f*, said glass, or glasses turned up into position, as shown at figs. 2 and 3.

Having thus fully described my invention,

What I claim therein as new, and desire to secure by Letters Patent, is—

1. The connecting of the eye-glass *a* to a hinged and adjustable plate, *b*, which, when shut down, forms a part of the case, or cover, substantially as described.

2. Also, in addition to the pivoting of the large glass to the frame, to swing it in and out of the case, the hinge for allowing it to be turned at right angles to the plane on which it so swings in and out, substantially as described.

3. Also, a folding opera-glass, which swings into a case, or cover, forming a part of the instrument, and which is opened out and arranged for use, substantially as described and represented.

JOS. SAXTON.

Witnesses:

A. B. STOUGHTON,
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