

No. 654,870.

Patented July 31, 1900.

H. H. BOYD.
EYEGLASSES.

(Application filed Apr. 28, 1900.)

(No Model.)

Fig. 1.

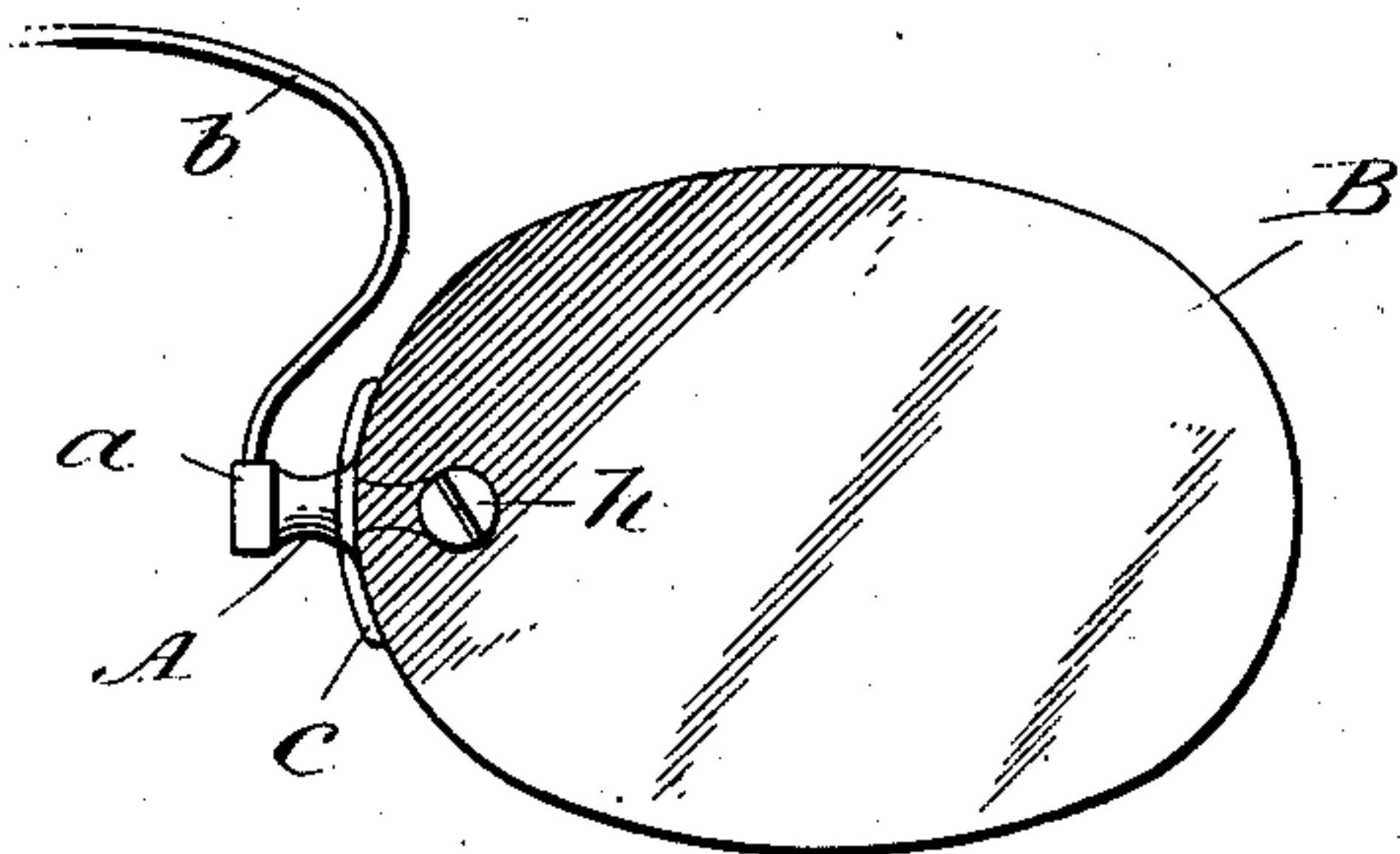


Fig. 2.

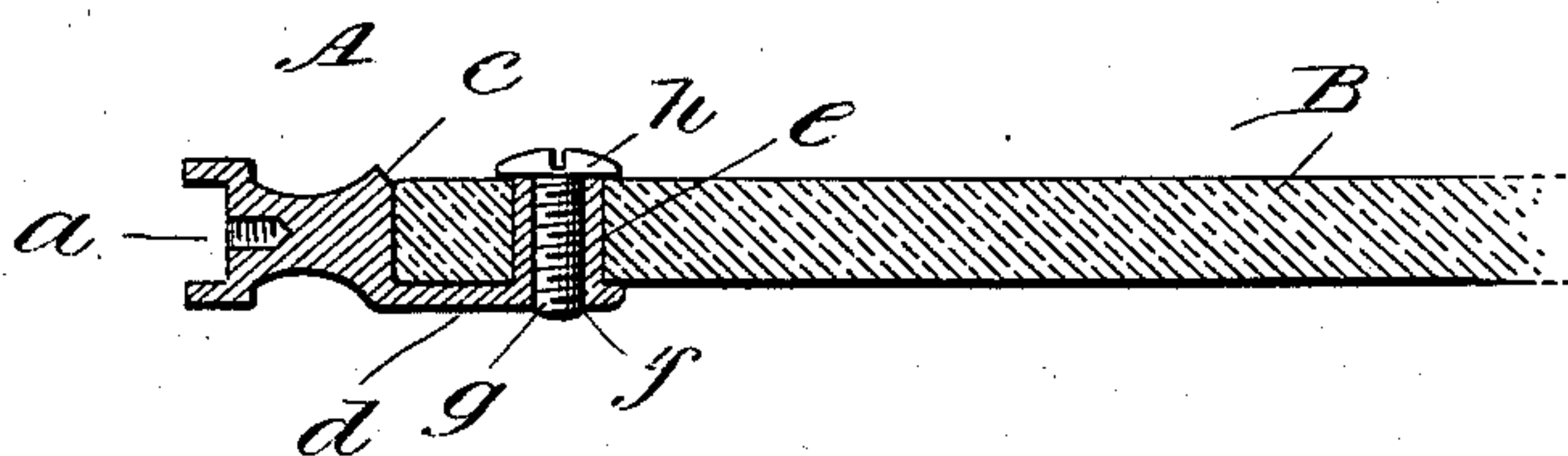
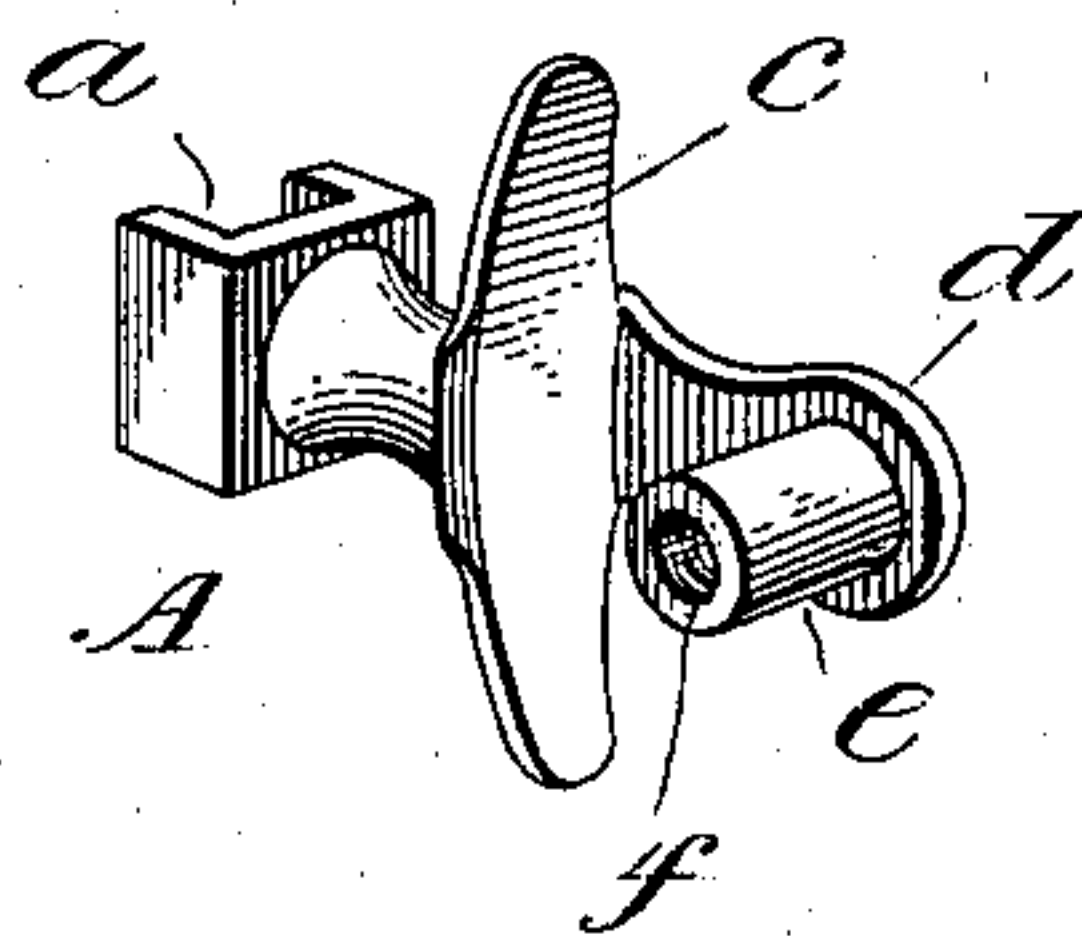


Fig. 3.



Witnesses.
Geo. T. Cross.
Chas. T. Bennett.

Inventor,
Harry H. Boyd,
by *Horace Pettit*
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UNITED STATES PATENT OFFICE.

HARRY H. BOYD, OF PHILADELPHIA, PENNSYLVANIA.

EYEGLASSES.

SPECIFICATION forming part of Letters Patent No. 654,870, dated July 31, 1900.

Application filed April 23, 1900. Serial No. 13,844. (No model.)

To all whom it may concern:

Be it known that I, HARRY H. BOYD, a citizen of the United States, and a resident of the city of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Eyeglasses, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to certain improvements in eyeglasses and particularly to that class known as "frameless" eyeglasses.

The principal object of my invention is to provide an improved construction of "strap" for securing the lenses of eyeglasses to the bridge-piece which embodies strength and simplicity and also affords a saving of metal.

A further object of my invention is to provide a strap so constructed as to relieve the screw which secures the lens to the strap from all strain, such as it would be subjected to in handling and cleaning the lenses, thus preventing the liability of this screw to loosen and work out, and also to provide a construction which will afford a threaded bore to engage the threads of the screw throughout its entire length, thereby insuring engagement of the screw with the strap even if it should become loose and work out a short distance.

With these objects in view my invention consists in the construction and arrangement of the parts, substantially as herein set forth, and particularly pointed out in the claim made hereto.

Referring to the accompanying drawings, in which similar letters of reference are used to indicate similar parts, Figure 1 is an elevation of one lens, showing my improved strap secured thereto, also showing a portion of the bridge. Fig. 2 is an enlarged sectional view taken centrally through the strap and lens. Fig. 3 is an enlarged perspective view of the strap detached from the lens and bridge.

In carrying out my invention I provide an attachment which I term a "strap" A, which may be constructed of a single piece of metal and has formed on one end a stirrup *a*, in which is secured the bridge-piece *b* in the usual well-known manner. A curved guard *c* is formed about centrally of the strap, which is also of the usual shape and is adapted to embrace the edge of the lens when in position.

Extending from one edge of the guard *c* is an ear or clip *d*, having formed on its inner face, adjacent its end, a tubular boss or sleeve *e*, having a threaded bore *f* extending through the clip *d*. This boss *e* is of a length corresponding to the thickness of the lens and is adapted to an aperture formed in the lens, as will be hereinafter explained. A screw *g* of a length equal to the length of the threaded bore *f* is provided and adapted to said threaded bore and having a head *h* of larger diameter than that of the boss *e*, as most clearly illustrated in Fig. 2 of the drawings. The lens *B* is provided with an aperture located the proper distance from its edge, into which fits the boss *e* when the parts are assembled. After the lens has been placed in position the screw *g*, having the enlarged head *h*, is screwed into the threaded bore *f* of the boss *e* until the said head firmly binds against the end of the boss and also bears lightly against the face of the lens and securely holds said lens in position.

The construction as above described forms a very efficient means for securing the lens to the strap and provides a threaded aperture which the securing-screw engages throughout its entire length, so that the said screw has a firm hold on the strap. The boss *e*, constructed as described, receives the strain which would otherwise be given the screw *g* when the lenses are shaken by continuous handling and cleaning, said boss also preventing the head of the screw *g* from pressing too tightly against the face of the lens, thus lessening the liability of breaking said lens by too much pressure, as is often the case in the ordinary construction of strap now in use.

By my above-described construction I am also enabled to simplify and cheapen the cost of manufacture of this class of goods by a considerable saving of material in doing away with the extra clip or ear and having the head of the screw *g* perform the function which the additional ear has performed heretofore. The saving of material is an important factor on this class of devices, as such material is generally gold or some other high-priced material.

I am aware that various devices for this same purpose have been made and patented, and I do not wish to claim the same broadly,

but only in the specific terms as set forth in my description, and particularly pointed out in the claim made hereto.

Having thus fully described my invention, 5 what I claim, and desire to secure by Letters Patent, is—

In an eyeglass, the combination with the lens, of a strap A, for uniting the lens to the bridge or other device, a guard c formed on 10 said strap adapted to embrace the edge of the lens, an ear extending from one side of the said guard, a boss e, formed on said ear adapted to an opening through the lens of a length equal to the thickness of the lens

against which the head of the securing-screw 15 is adapted to bear to relieve the lens of the clamping strain, a screw-threaded bore formed in said boss, and a screw g, adapted to the said bore, having an enlarged head which embraces the end of the boss and the 20 side of the lens opposite the ear, substantially as described.

In witness whereof I have hereunto set my hand this 20th day of April, A. D. 1900.

HARRY H. BOYD.

In presence of—

JNO. T. CROSS,

CHARLES H. SPECKMAN.