

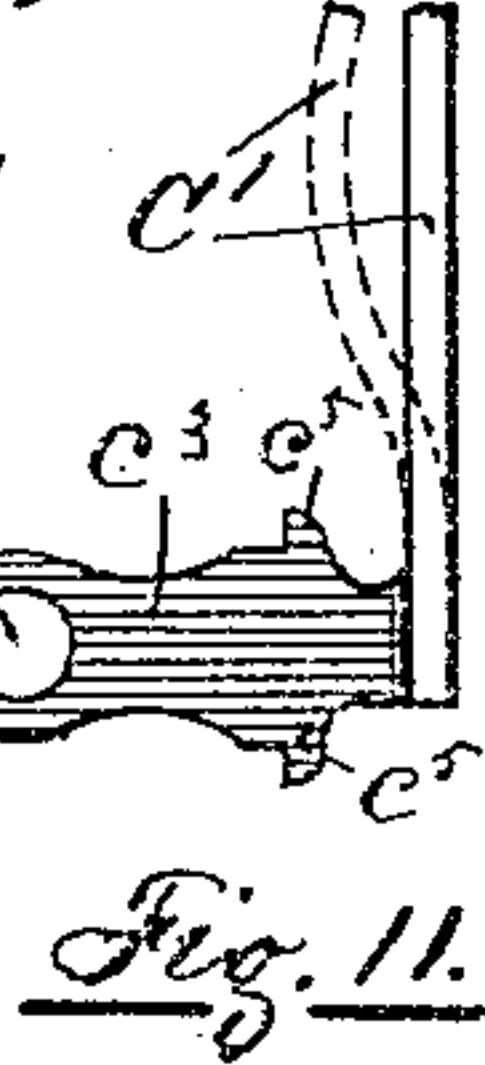
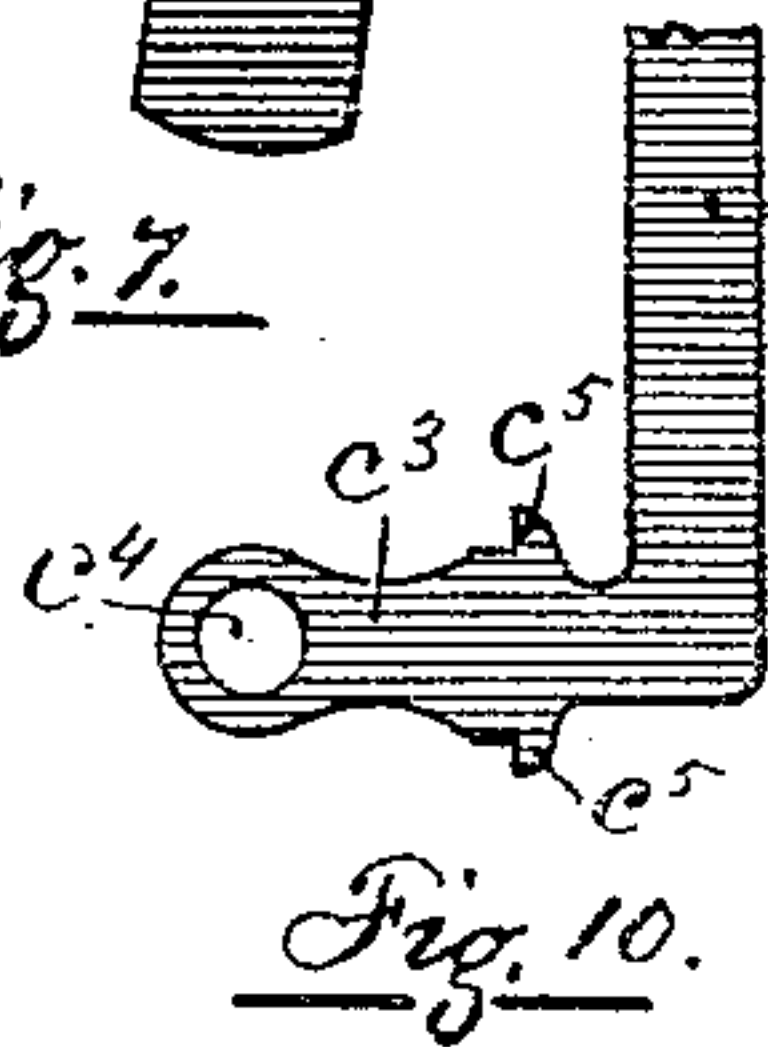
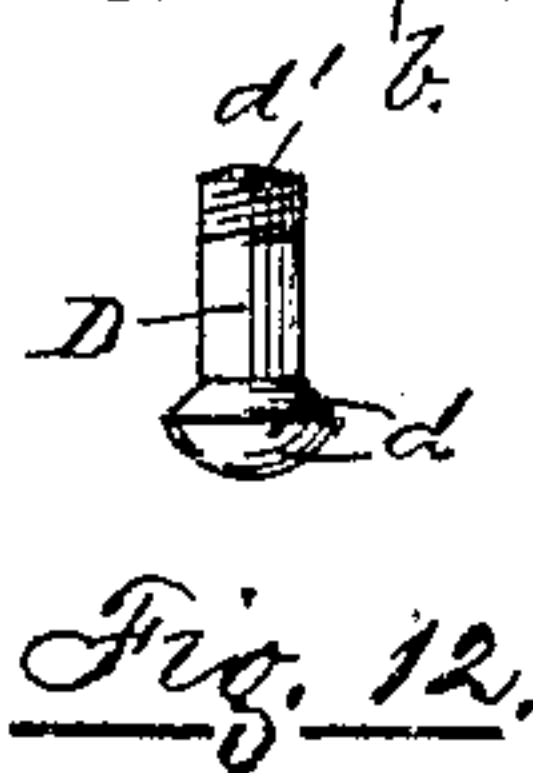
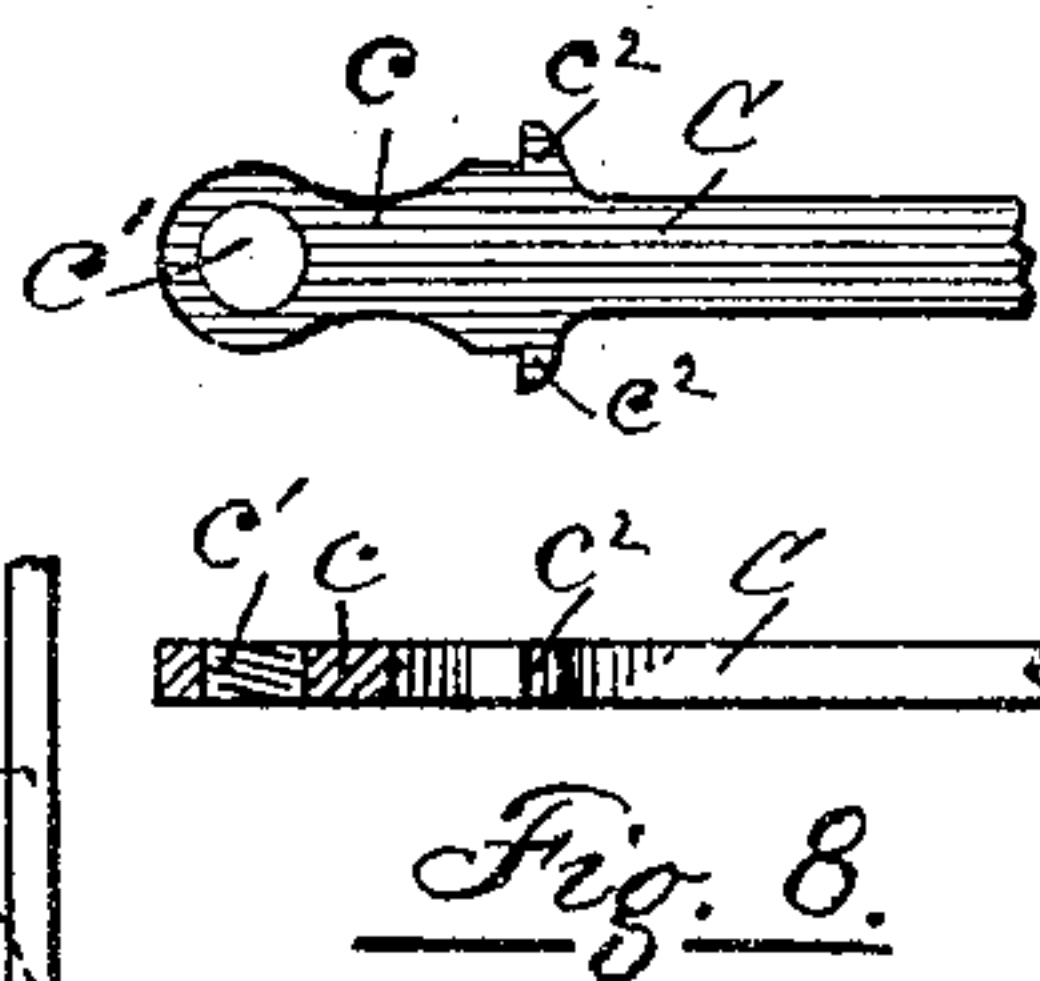
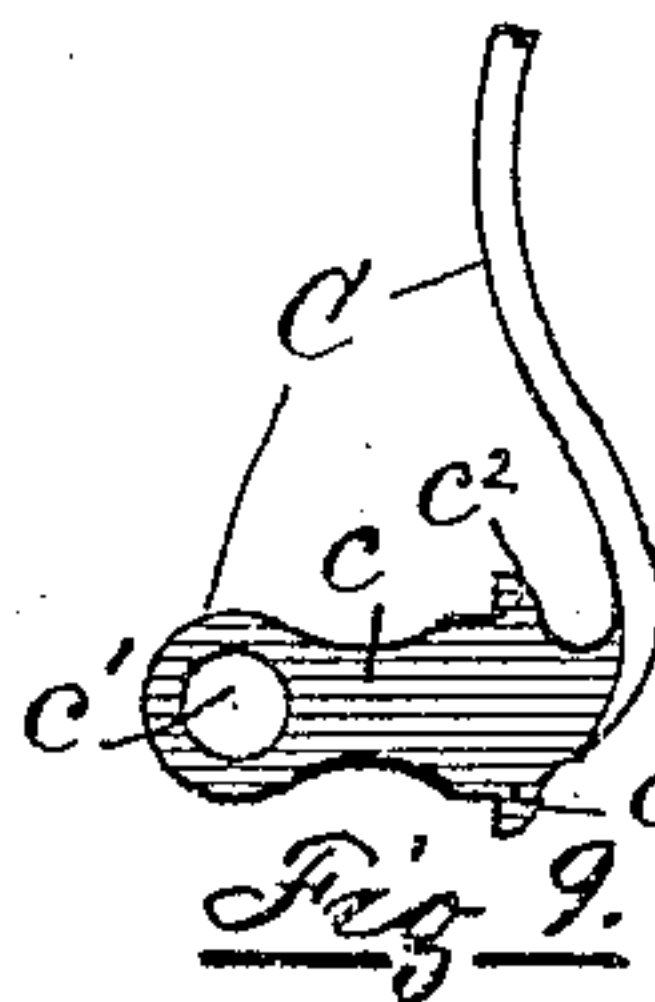
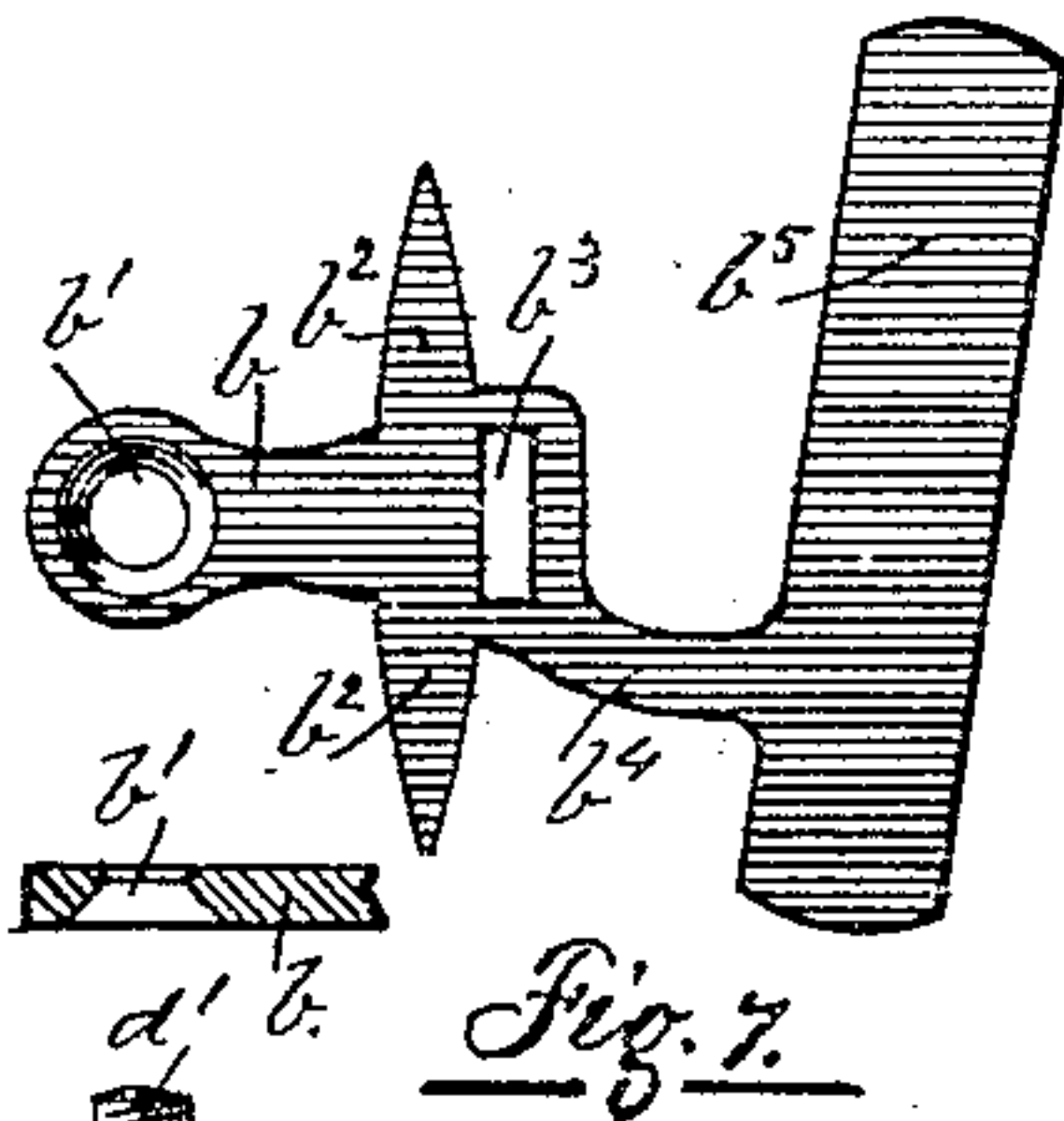
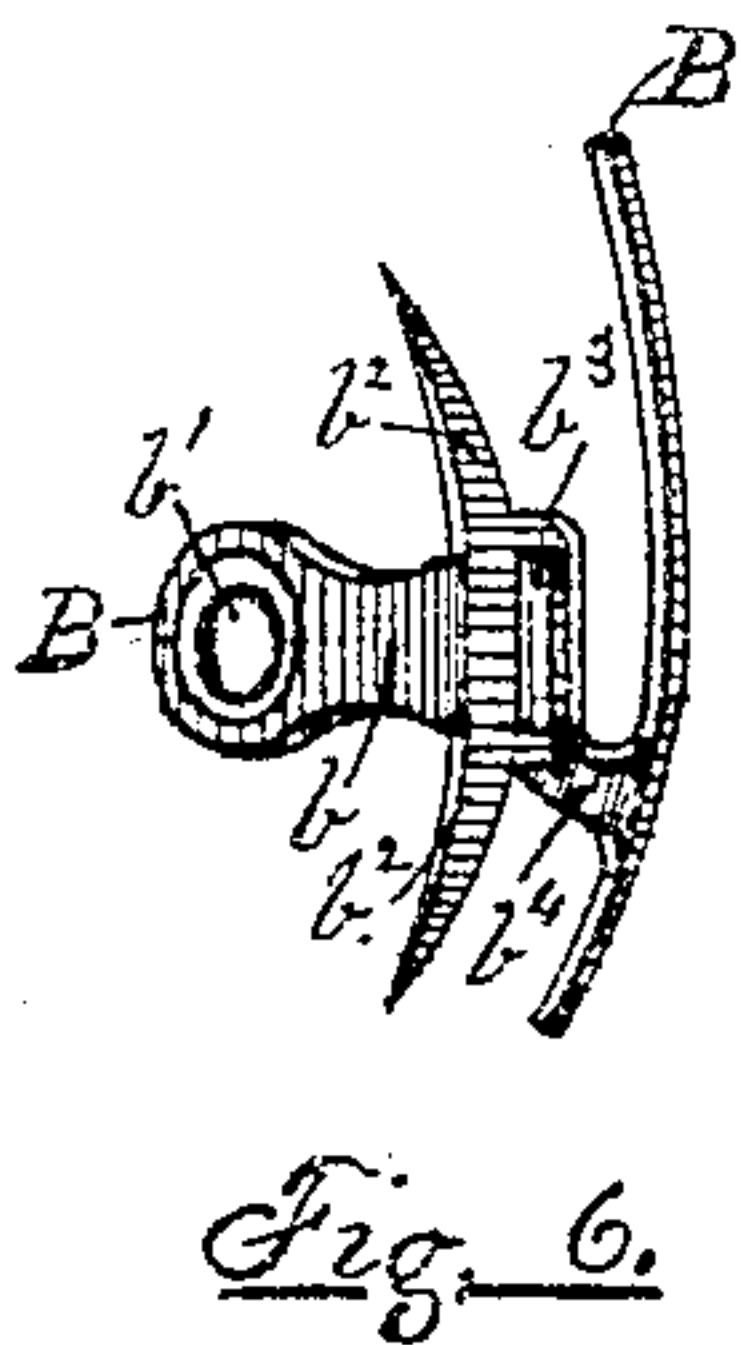
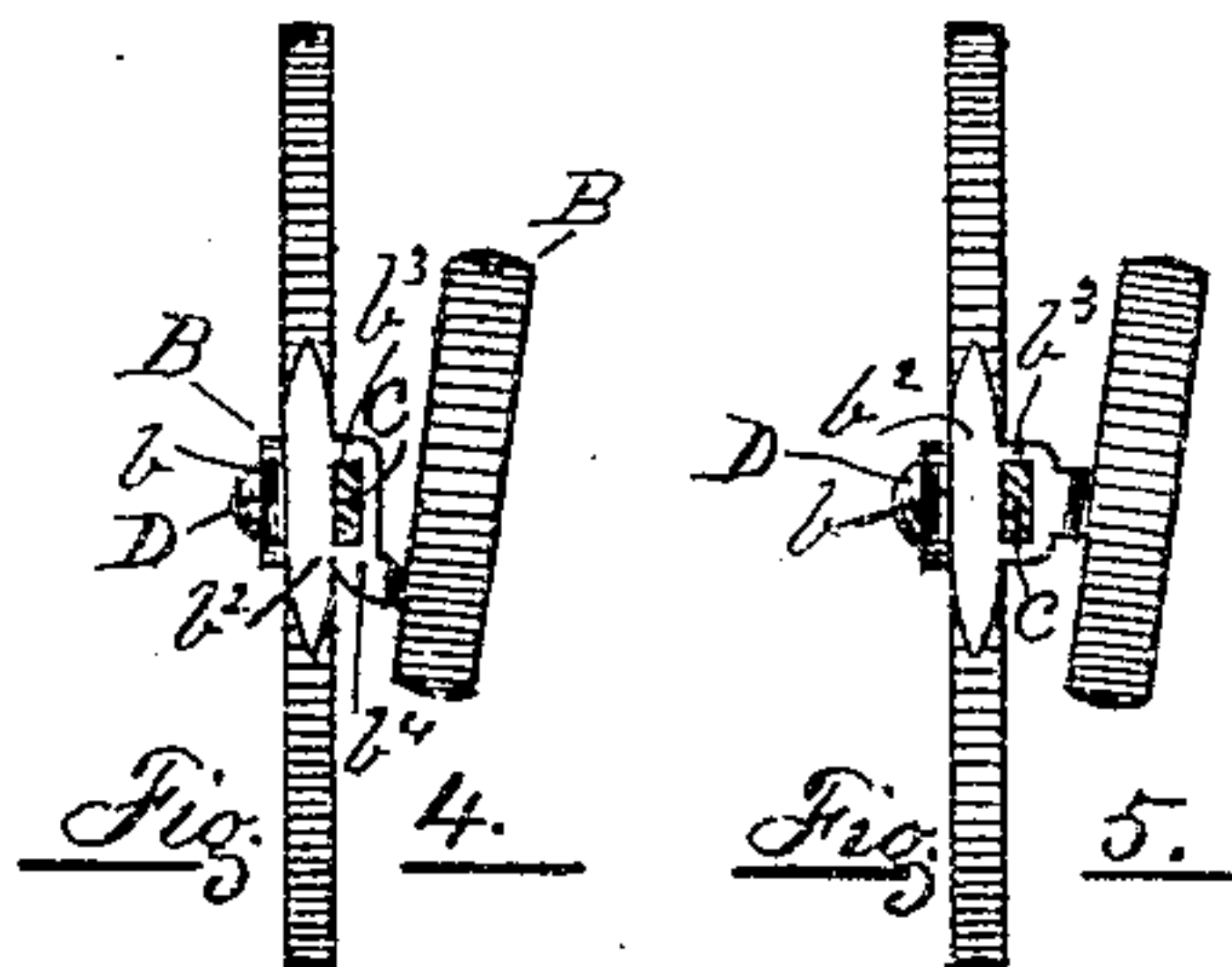
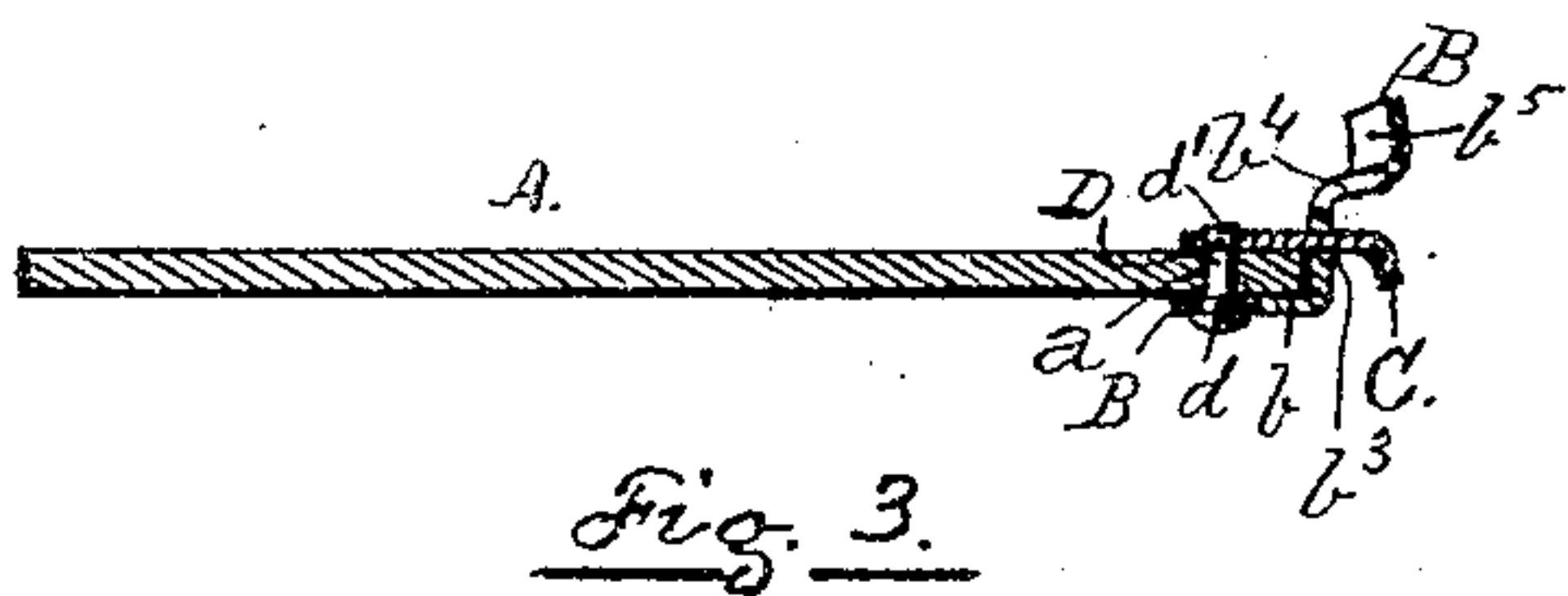
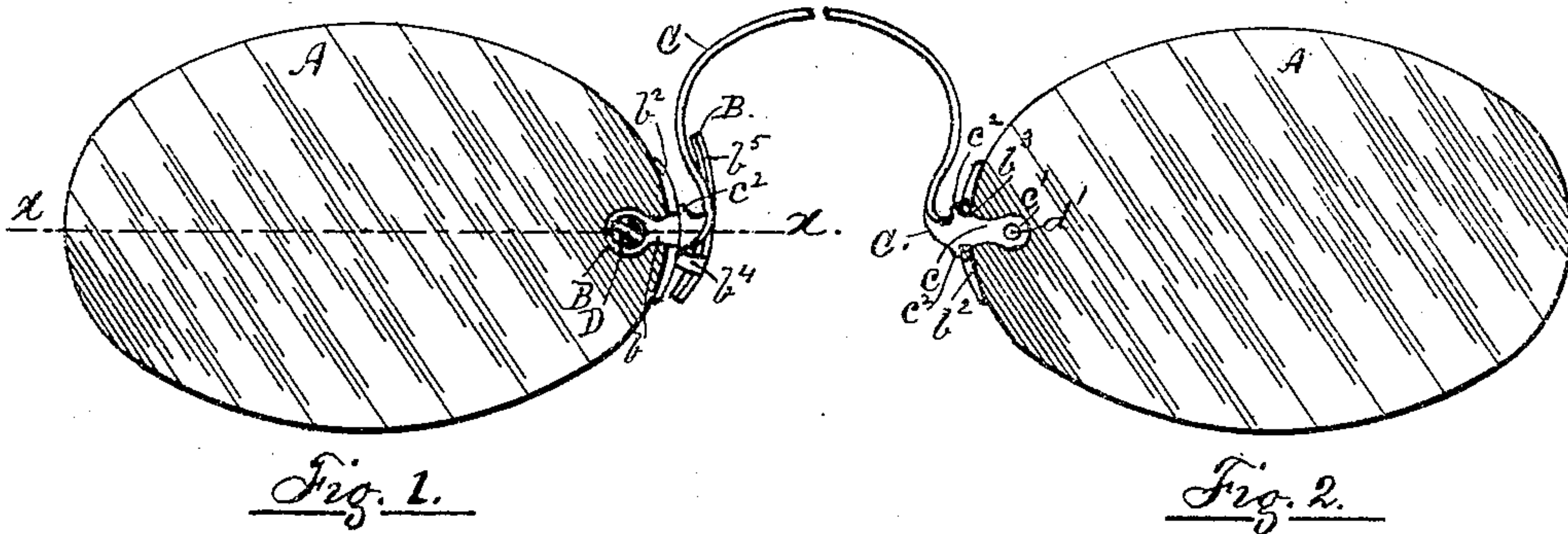
No. 778,528.

PATENTED DEC. 27, 1904.

J. E. BOYLE.

MOUNTING FOR FRAMELESS EYEGLASSES, SPECTACLES, OR THE LIKE.

APPLICATION FILED APR. 11, 1904.



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# UNITED STATES PATENT OFFICE.

JAMES E. BOYLE, OF LANCASTER, PENNSYLVANIA.

MOUNTING FOR FRAMELESS EYEGLASSES, SPECTACLES, OR THE LIKE.

SPECIFICATION forming part of Letters Patent No. 778,528, dated December 27, 1904.

Application filed April 11, 1904. Serial No. 202,620.

*To all whom it may concern:*

Be it known that I, JAMES E. BOYLE, a citizen of the United States, residing at Lancaster, in the county of Lancaster and State of Pennsylvania, have invented certain new and useful Improvements in Mountings for Frameless Eyeglasses, Spectacles, or the Like; 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.

This invention relates to improvements in mountings for frameless eye or nose glasses, spectacles, and the like of that class in which an arm of the nose-guard and an end of the nose-bridge or spring constitute the jaws or straps engaging against the opposite sides or surfaces at one end of a lens, and in which a screw passing therethrough serves to secure the several parts in position.

The object of the invention is to provide a simple but effective mounting consisting of three pieces, a spring end, an arm of a nose-guard, and a headed screw, to secure the required end of the desired lens in position to said mounting.

The elements of the invention will severally and at large appear in the following description, and they will be separately or combinedly pointed out or set forth in the appended claims.

The purposes of the invention are attained by the mechanism, devices, and means illustrated in the accompanying drawings, with similar reference characters to designate like parts throughout the several views, in which—

Figure 1 is a front elevation of the right-hand lens of a pair of frameless nose-glasses, showing the completed mounting of the invention in position on the left-hand end of said lens; Fig. 2, a rear elevation of the same lens with the nose-guard plate and a portion of its connecting-arm removed, showing the spring-end arm or strap complete in close contact with the face-surface of the lens; Fig. 3, a longitudinal central horizontal section, taken on the line  $x x$  in Fig. 1 and viewed from

above; Fig. 4, a view from the right of Fig. 1 with the spring-end arm or strap appearing in section within the oblong slot or recess of the nose-guard arm, the spring adjacent thereto having been removed; Fig. 5, a view similar to Fig. 4, showing a modification of the arm connecting the nose-guard plate; and Figs. 6 to 12, both inclusive, are enlarged views of elements used in the construction and of blanks punched from sheet metal, from which all but the screw of said elements are formed.

In the drawings, A designates the right-hand lens of a frameless pair of nose or eye glasses, said lens being provided through its body, adjacent to the required end edge thereof, with an orifice  $a$  for securing the mounting; B, the nose-piece or guard; C, the nose-bridge or spring, about one-half of which only is shown in the drawings; and D, the taper-headed screw for securing the several parts together.

Since the left-hand lens is similar in form, but oppositely disposed, and the mounting similarly but oppositely arranged and secured thereto, it is deemed sufficient to consider the right-hand lens alone in the description.

The nose-piece or guard B (best shown in Fig. 6) is preferably made in one piece from a blank punched out of approved sheet metal, and it consists of an arm or strap  $b$ , provided with a countersunk orifice  $b'$  adjacent to one end thereof and adapted to be placed against the front surface of the lens, so that said orifice  $b'$  shall register with the orifice  $a$  of the lens and its other end flush or even with the adjacent end edge of said lens. At this latter point of said arm is a perpendicular side extension, rearward or inward thereof, forming projections or shoes  $b^2 b^2$  to engage against the adjacent edge of the lens. Flush with the inner or face surface of the lens said extension is provided with an oblong aperture  $b^3$  for the passage of an arm or strap of the spring end or nose-bridge into close contact with said surface. Integral with the lower angle of this extension, or with the portion thereof surrounding said aperture, is a curving arm  $b^4$ ,



integral at its outer extremity with the adjacent side edge of a nose-guard plate  $b^5$ , which plate may be arranged at any approved angle therewith. In the drawings this arm is shown as joining said plate below the center thereof; but the juncture may be centrally located, as shown in Fig. 5.

The nose-bridge or spring C (best shown in Fig. 9) is preferably formed from a blank (illustrated in Fig. 8) of approved sheet metal, and it comprises an end arm or strap  $c$  to pass through the aperture  $b^3$  and lie closely against the face surface of the lens. It has adjacent to its free end an orifice  $c'$ , provided with an internal screw-thread, to be engaged by the securing-screw, yet to be described, and having adjacent to the outer surface of the nose-guard extension upper and lower edge projecting lugs or ears  $c^2$   $c^2$  to abut against said latter surface, preventing the further entrance of the arm into said aperture, and when said arm is secured in position preventing the forward springing or bending of said extension, while forward of said lugs the spring is folded over to the desired angle with the plane of the lens and curved to form the required nose-bridge.

Fig. 10 shows a blank from which the nose-bridge or spring C' (shown in Fig. 11) is formed, having the end arm or strap  $c^3$ , provided with the screw-threaded end orifice  $c^4$ , and the edge projecting lugs or ears  $c^3$  all corresponding with those of the spring C, before mentioned, and for the same purpose; but at the forward end of the strap, beyond the lugs, the spring is folded over at right angles therewith and curved to form the required nose-bridge.

Now assembling the parts B and C and arranging them at the prescribed end of the lens A on the respective sides thereof, or so that their orifices  $b'$   $c'$  shall be in registering alignment with its orifice  $a$ , when a screw D, having at one end a taper head  $d$  and a screw-thread  $d'$  at the other end, has its shank passed through the alined orifices, with its head  $d$  engaging in the orifice  $b'$  and its screw-thread  $d'$  in the orifice  $c'$ , which screw on being screwed home serves to bind the assembled parts together and secure the mounting in position, completing the eye or nose glasses, of course it being understood that the left-hand lens shall have been similarly treated.

The invention having thus been ascertained and described and the manner in which its functions are performed fully shown and set forth, what is considered new, and desired to be secured by Letters Patent, is—

1. In a mounting for frameless eyeglasses or spectacles with two lenses, having the lens A, with the orifice  $a$ , adjacent to one end edge thereof; the nose-guard B, composed of the arm  $b$ , lying close to one side of said lens and

having the orifice  $b'$ , overlying its orifice  $a$ , said arm having the perpendicular side extension with the shoes  $b^2$   $b^2$ , in close contact with the adjacent edge of said lens and the aperture  $b^3$ , flush with the other side thereof, said extension having at the outer edge thereof the curved arm  $b^4$ , and the nose-guard plate  $b^5$ , having one edge thereof integral with the forward end of said latter arm; and a nose-bridge having one end arm passing through said aperture  $b^3$ , and lying close to the adjacent surface of the lens, with means provided for securing the several parts together; all substantially as described and for the purpose hereinbefore set forth.

2. In a mounting for eyeglasses or spectacles of the character described, having the lens A, with the orifice  $a$ , and the nose-guard B, with the arm  $b$ , having the orifice  $b'$ , the perpendicular side extension with the shoes  $b^2$   $b^2$ , and the aperture  $b^3$ , the curved arm  $b^4$ , with the nose-guard plate  $b^5$ ; the nose-bridge C, having the arm  $c$ , passing through said aperture  $b^3$ , and lying close to the adjacent surface of said lens, the screw-threaded orifice  $c'$  to register with said orifice  $a$ , and the edge projecting lugs  $c^2$ , abutting against the outer surface of said side extension, with means provided to bind the several parts together, substantially as described and for the purpose hereinbefore set forth.

3. In a mounting for eyeglasses or spectacles of the character described, having the lens A, with the orifice  $a$ ; the nose-guard B, composed of the arm  $b$ , with the orifice  $b'$ , and the perpendicular side extension having the shoes  $b^2$ , and the oblong aperture  $b^3$ , with the curved arm  $b^4$ , and the nose-guard plate  $b^5$ , with one edge thereof joined to the forward end of said latter arm; the spring C, passing through the aperture  $b^3$ , the screw-threaded orifice  $c'$ , overlying the orifice  $a$ , of the lens, and the oppositely-disposed edge lugs  $c^2$ , abutting against the adjacent surface of said extension; and, the screw D, having the head  $d$ , and the screw-threaded end  $d'$ , said screw passing therethrough with the head thereof engaging said orifice  $b'$ , its shank in engagement with said orifice  $a$ , and its threaded end screwed home into said orifice  $c'$ , all substantially as described and for the purpose hereinbefore set forth.

4. In a mounting for eyeglasses or spectacles of the character described, in combination: the lens A, having the orifice  $a$ ; the nose-guard B, having the strap  $b$ , with the rear end orifice  $b'$ , and the forward end perpendicular side extension with the lens edge engaging shoes  $b^2$   $b^2$ , the oblong aperture  $b^3$ , the forward and sidewise curved arm  $b^4$ , and the nose-guard plate  $b^5$ , with one side edge thereof integral with the forward end of said latter arm; the nose-bridge or spring C, hav-

ing the arm  $c$ , with the screw-threaded end  
orifice  $c'$ , and the oppositely-projecting edge  
lugs  $c^2$ ; and, the screw D, having the under  
side beveled head  $d$ , and screw-threaded end  
5  $d'$ ; all arranged, combined, and secured in  
position, substantially as described and for  
the purpose hereinbefore set forth.

In testimony whereof I affix my signature in  
presence of two witnesses.

JAMES E. BOYLE.

Witnesses:

CHAS. E. LONG,  
FRED. P. MENTZER.