

No. 724,755.

PATENTED APR. 7, 1903.

F. A. STEVENS.
BRIDGE FOR RIMLESS SPECTACLES.

APPLICATION FILED AUG. 31, 1900.

NO MODEL.

Fig. 1.

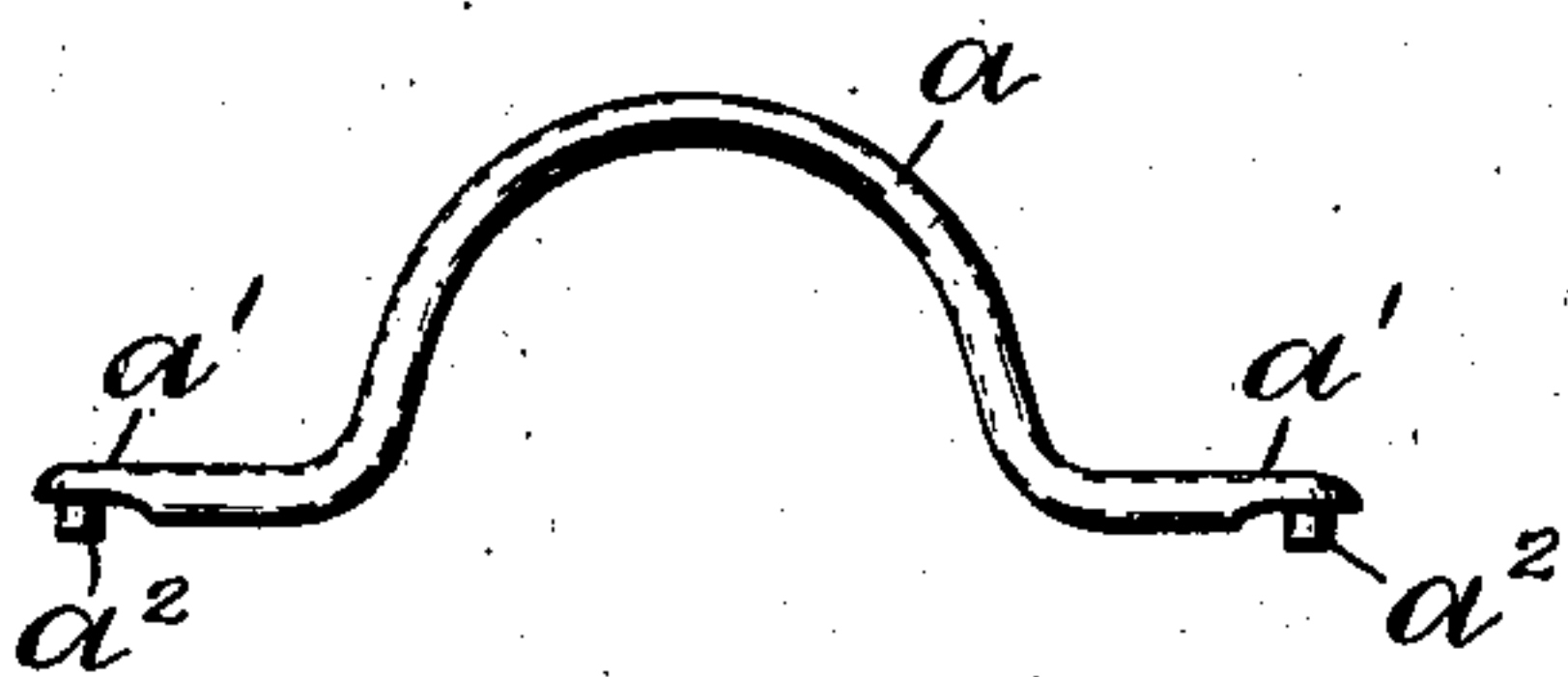


Fig. 2.

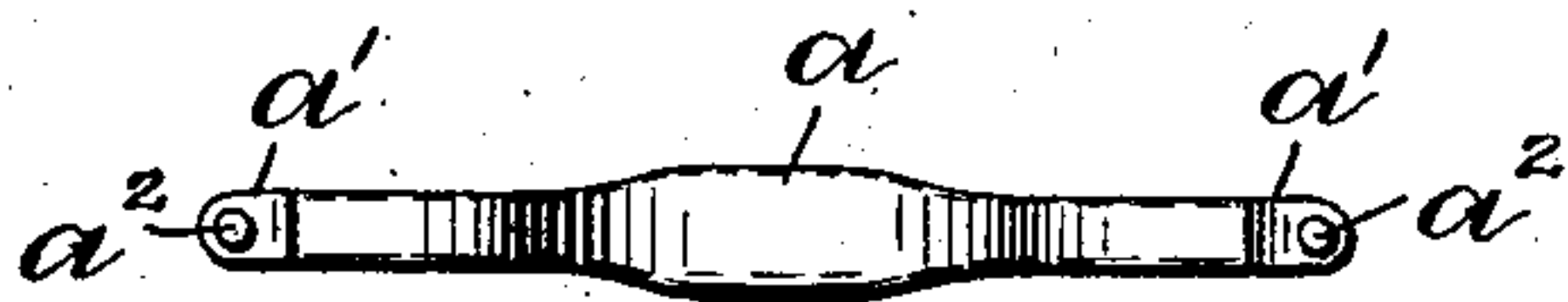


Fig. 3.

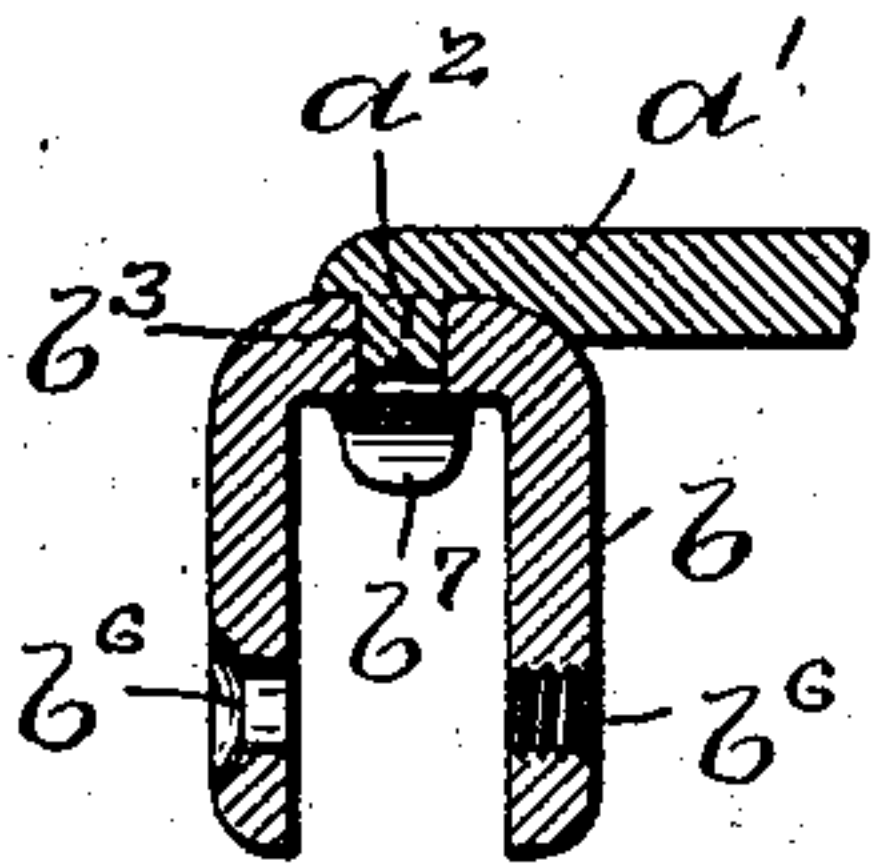


Fig. 7.

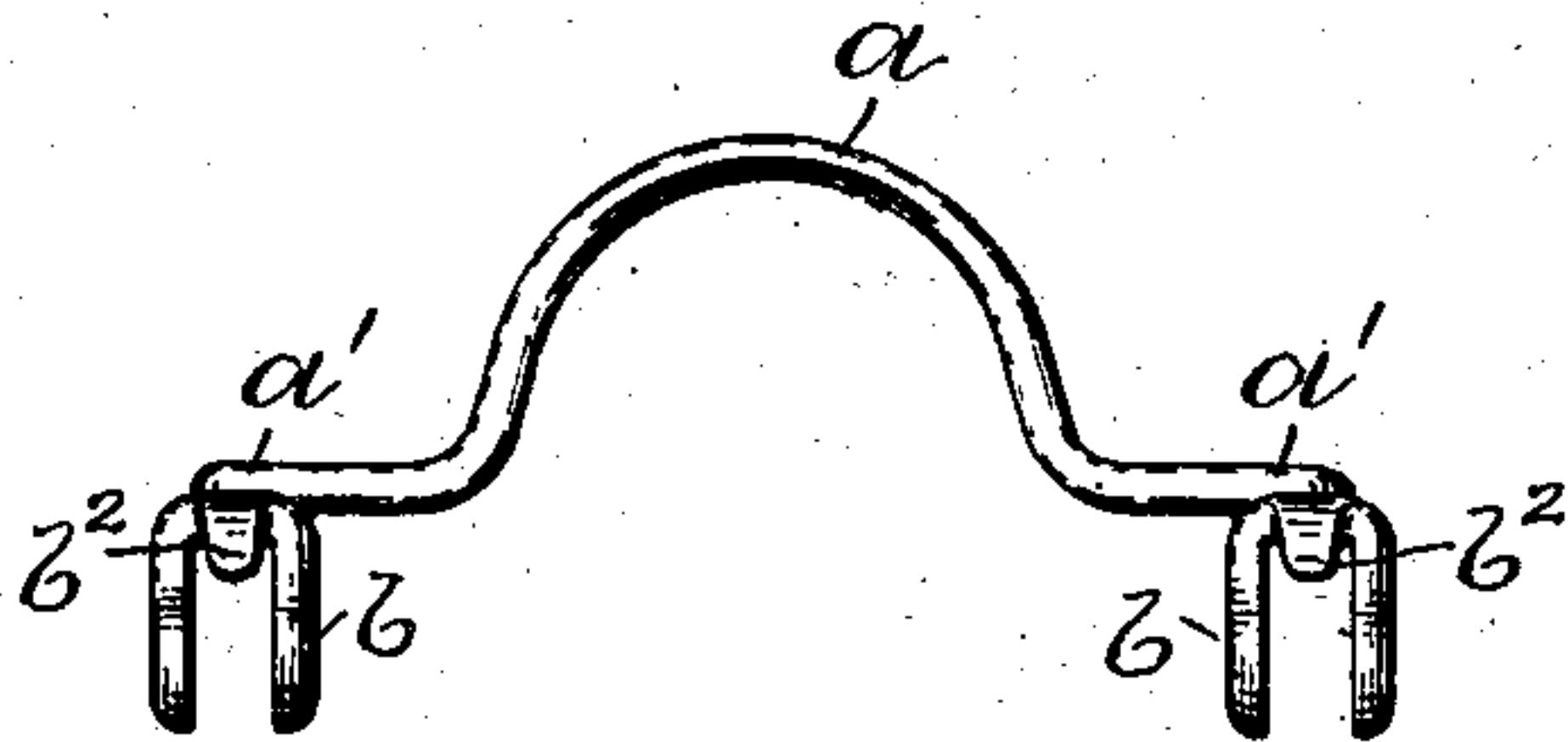


Fig. 4.

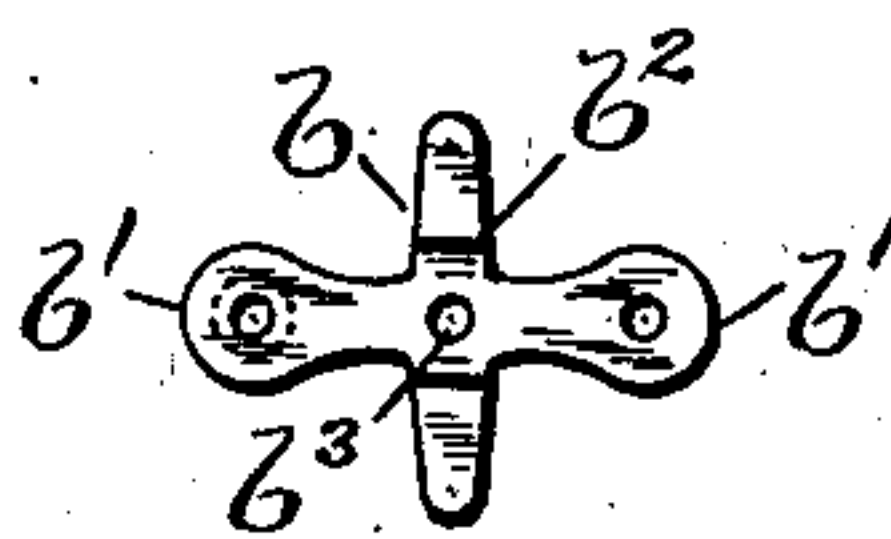


Fig. 5.

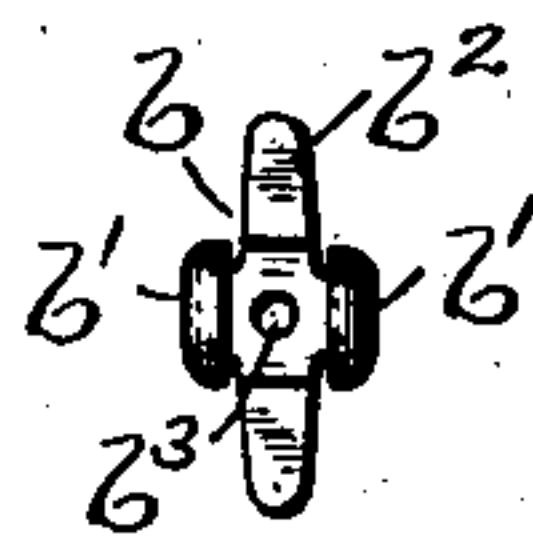
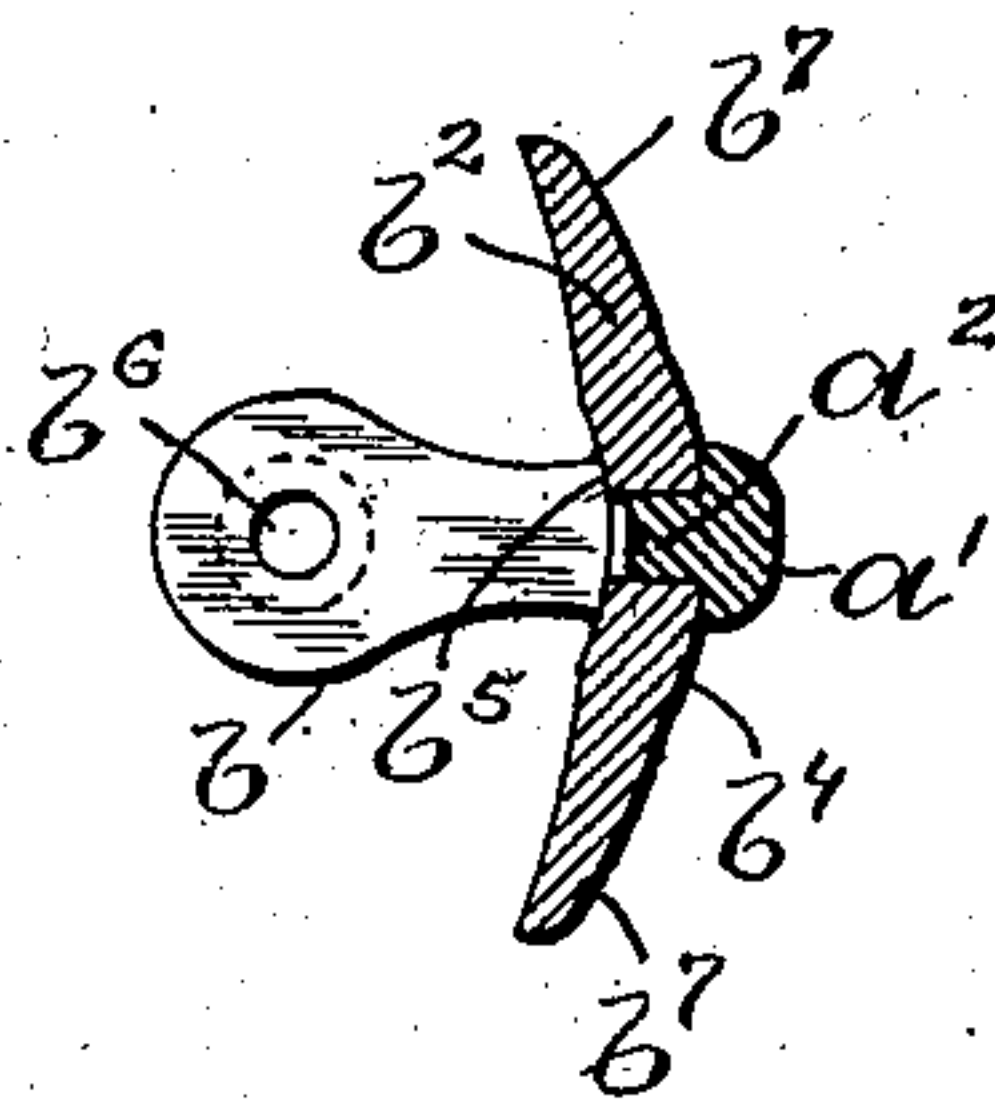


Fig. 6.



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BRIDGE FOR RIMLESS SPECTACLES.

SPECIFICATION forming part of Letters Patent No. 724,755, dated April 7, 1903.

Application filed August 31, 1900. Serial No. 28,664. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK A. STEVENS, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Bridges for Rimless Spectacles, of which the following is a specification.

This invention has reference to an improvement in the nose-bridge for rimless spectacles in which the bridge is secured to the lenses; and it consists in the peculiar and novel construction and the combination of the parts whereby the construction of the parts is facilitated and the nose-bridge is more firmly secured to the lenses, as will be more fully set forth hereinafter.

In rimless spectacles the nose-bridge is soldered to the clamping-pieces, which are secured to the lenses. To secure the required balance, the clamping-pieces must be secured to the nose-bridge at exactly equidistant points. The clamping-pieces secured to the lenses must be firmly held in place without being clamped so tight as to strain the lenses. The clamps have therefore been provided with spring cross ends which bear on the edges of the lenses. These spring ends as heretofore constructed did not secure the firm hold desired.

The object of this invention is to overcome these defects and facilitate the manufacture of the devices.

Figure 1 is a side view of my improved nose-bridge. Fig. 2 is a view of the nose-bridge from below. Fig. 3 is a sectional view of one end of the nose-bridge and the clamp-piece, showing the manner of connecting the parts. Fig. 4 is a plan view of a blank for one of the clamp-pieces. Fig. 5 is an end view of one of the clamp-pieces formed from the blank shown in Fig. 4. Fig. 6 is a sectional view at right angles to Fig. 3 of the clamp-piece, showing the peculiar construction of the same. Fig. 7 is a side view of the completed nose-bridge for rimless spectacles ready to receive the lenses and be bent at the opposite ends to bring the lenses into the desired plane or planes.

In the drawings, a indicates the nose-bridge wire, and $a' a'$ the ends of the same. The under side of these ends I flatten in suitable

dies and raise, preferably, the short pins $a^2 a^2$. These pins serve as guides in soldering the ends of the nose-bridge to the clamping-pieces, which are provided with a cavity (in the preferred form a hole) in which the pins or guides are placed and held while the parts are secured by solder.

It will be evident that the relative positions of the projecting guides and the cavities may be reversed, and I do not wish to confine myself to any particular form of the guides, as any suitable projecting guide on one piece may be entered into a corresponding cavity in the other piece.

The clamping-piece b has the two arms $b' b'$ extending at right angles to the curved bar b^2 . The guide-cavity b^3 in the curved bar receives the projecting guide on one end a' of the nose-bridge. The curved b^2 has the rigid central portion b^4 arched, the inner surface b^5 forming a segment of a circle, the center of which is in the hole b^6 . From the central rigid arch b^4 extend the tapering spring ends $b^7 b^7$ in opposite directions. The inner surface of these spring ends b^7 is curved to bear on the peripheral edge of the lens and hold the clamp in the position in which it is secured to the lens.

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

1. The combination in a nose-bridge with the bridge-wire a , the flattened ends $a' a'$ and the pins $a^2 a^2$ formed from a single piece of wire, of the lens-clamp formed with the arms b' , the clamping-pieces b and the rigid central portion b^4 provided with the guide-cavity b^3 , as and for the purpose described.

2. The combination with the nose-bridge of rimless spectacles having the ends $a' a'$ and the pins $a^2 a^2$ on the same, of the clamping-piece b having the perforated arms $b' b'$, the central, rigid arch b^4 , and the spring ends $b^7 b^7$, whereby the clamp is held against the peripheral edge of the lens, as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FREDERICK A. STEVENS.

Witnesses:

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