

No. 740,611.

PATENTED OCT. 6, 1903.

W. O. ALDRICH.  
GUIDE EYE FOR SPINNING FRAMES.

APPLICATION FILED FEB. 5, 1903.

NO MODEL.

Fig. 1.

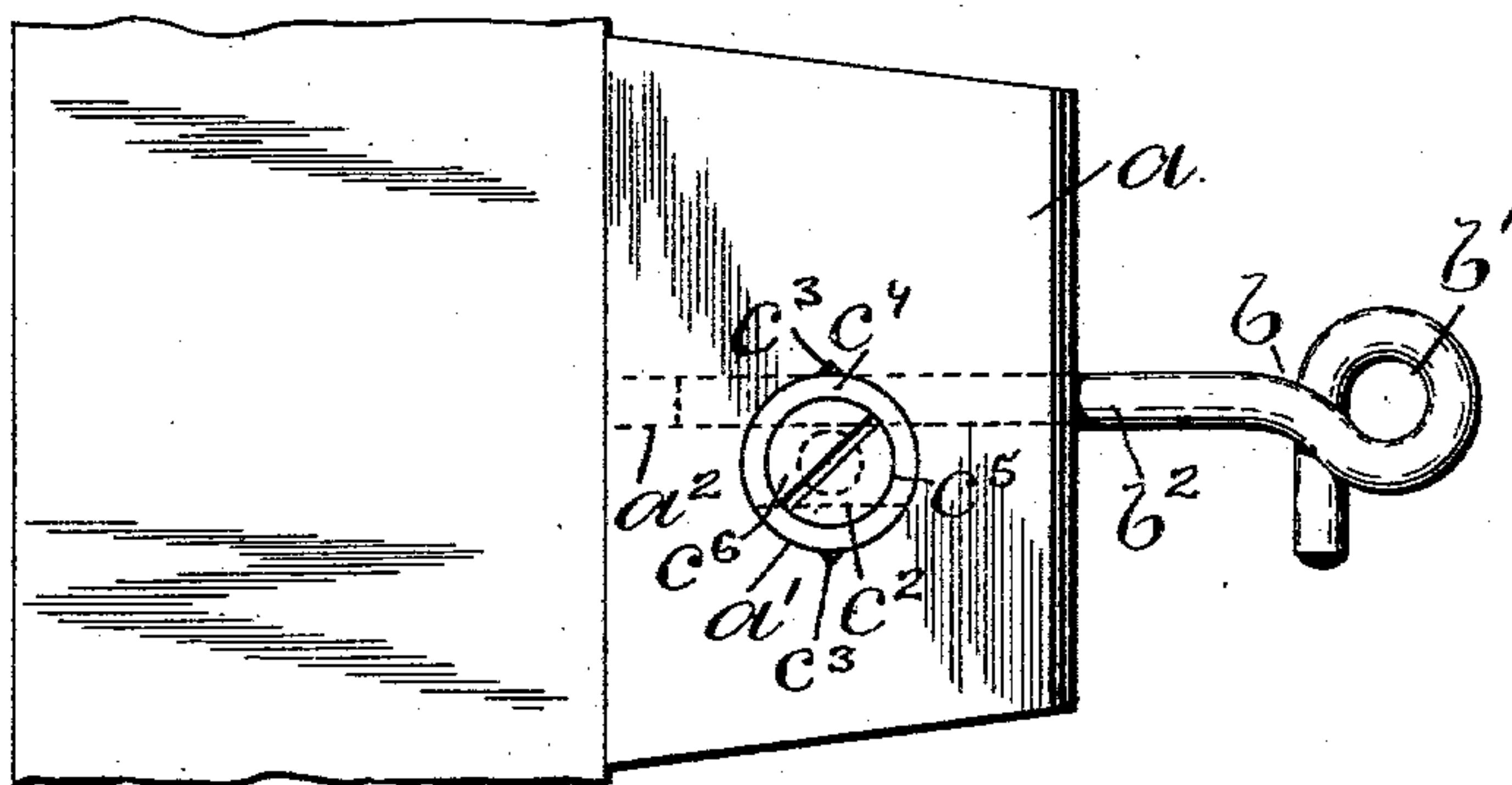


Fig. 2.

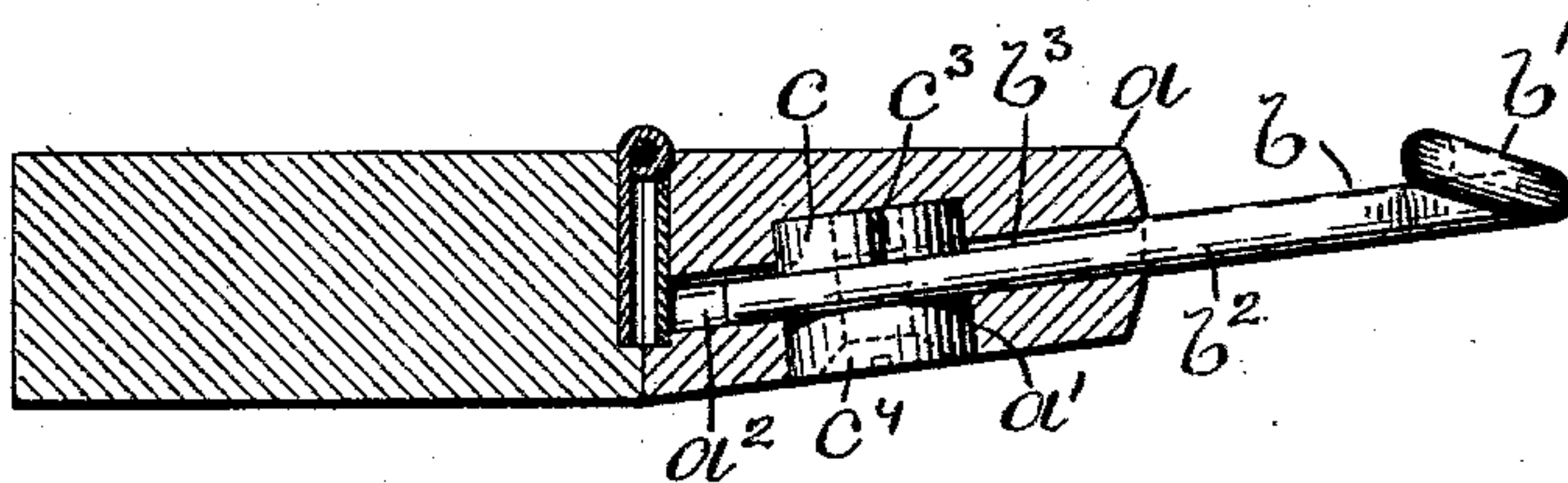
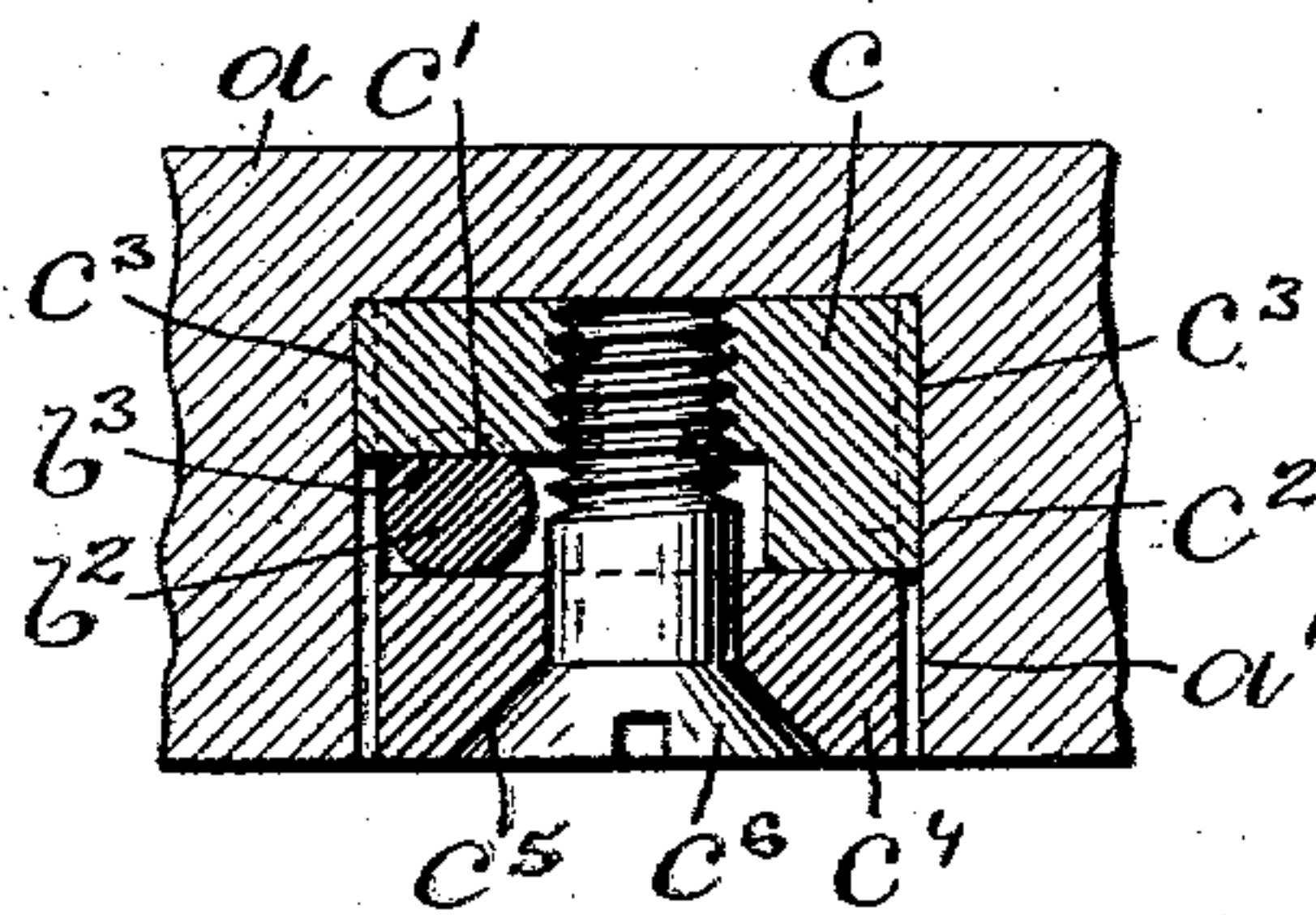


Fig. 3.



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## GUIDE-EYE FOR SPINNING-FRAMES.

SPECIFICATION forming part of Letters Patent No. 740,611, dated October 6, 1903.

Application filed February 5, 1903. Serial No. 142,008. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM ORIN ALDRICH, a citizen of the United States, residing at Whitinsville, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Guide-Eyes for Spinning-Frames, of which the following is a specification.

This invention has reference to an improvement in guide-eyes for spinning-frames, and more particularly to improvements in mechanism for adjustably securing guide-eyes to the finger-boards of spinning-frames or similar machines.

In adjustable guide-eyes for spinning-frames or similar machines it is desirable to accurately adjust the guide-eye over the center of the spindle and to firmly secure the guide-eye to the finger-board after adjustment by the operator.

The objects of this invention are to simplify the construction and the operation of adjustably securing guide-eyes to the finger-boards of spinning-frames or similar machines; and the invention consists in the peculiar and novel construction of the guide-eye and a clamping mechanism in the finger-board to adjustably secure the guide-eye to the finger-board, as will be more fully set forth herein-after.

Figure 1 is a plan view looking at the under side of a finger-board, showing my improved guide-eye and clamping mechanism for adjustably securing the guide-eye to the finger-board. Fig. 2 is a sectional view through the finger-board, with the guide-eye and clamping mechanism shown in full lines; and Fig. 3 is an enlarged cross-sectional view through the finger-board, guide-eye stem, and clamping mechanism.

In the drawings, *a* represents the hinged finger-board of a spinning-frame having the circular aperture *a'* in the under side of the clamping mechanism and the off-center intersecting duct *a<sup>2</sup>* for the guide-eye stem. The guide-eye *b* has the usual eye *b'* and the stem *b<sup>2</sup>*, with the flattened portion *b<sup>3</sup>* on its upper surface. The clamping mechanism in the aperture *a'* consists of the circular clamping-nut *c*, having the flat surface *c'*, the projecting boss *c<sup>2</sup>*, and the two fins *c<sup>3</sup> c<sup>3</sup>* to engage

with or be forced into the wall of the aperture *a'* in the wooden finger-board *a*. The circular clamping-head *c<sup>4</sup>*, with the countersunk central opening *c<sup>5</sup>* for the clamping-screw *c<sup>6</sup>* in screw-thread engagement with the clamping-nut *c*, secures the stem *b<sup>2</sup>* of the guide-eye between the clamping-nut *c* and the clamping-head *c<sup>4</sup>*, as shown in Fig. 3. The projecting boss *c<sup>2</sup>* acts as a fulcrum for the clamping-head *c<sup>4</sup>*, and the flattened portion *b<sup>3</sup>* on the guide-eye stem, in connection with the flat surface *c'* on the clamping-nut *c*, prevents the guide-eye from turning when secured in the clamping mechanism.

In assembling the parts of my improved guide-eye the clamping-nut *c* with the fins *c<sup>3</sup> c<sup>3</sup>* on its edge is forced into the circular aperture *a'* in the wooden finger-board, forcing the fins *c<sup>3</sup> c<sup>3</sup>* into the wood to prevent turning of the nut and to rigidly secure the stem of the guide-eye. The stem of the guide-eye is now pushed into the duct *a<sup>2</sup>* and over the clamping-nut, bringing the flattened portion of the stem and the flat surface of the clamping-nut into engagement. The clamping-head *c<sup>4</sup>* is now placed in the aperture *a'* and secured in position by the clamping-screw *c<sup>6</sup>*.

In adjusting my improved guide-eye the operator loosens the clamping-screw *c<sup>6</sup>*. The guide-eye may now be accurately adjusted over the spindle and firmly secured in its adjusted position by tightening the clamping-screw.

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

1. In a guide-eye, a hinged finger-board, there being an aperture in the finger-board with an off-center intersecting duct for the guide-eye stem, a two-part clamp in the aperture engaging with the guide-eye stem, and a screw in screw-thread engagement with the clamp to operate the clamp and adjustably secure the guide-eye to the finger-board, as described.

2. In a guide-eye, the combination with the hinged finger-board *a* having the circular aperture *a'* and the off-center intersecting duct *a<sup>2</sup>*, the guide-eye *b* having the eye *b'* and the stem *b<sup>2</sup>* with the flattened portion *b<sup>3</sup>*, the circular clamping-nut *c* having the flat surface

$c'$ , the projecting boss  $c^2$ , and the fins  $c^3$   $c^3$ ,  
and the circular clamping-head  $c^4$  with the  
countersunk central opening  $c^5$  for the clamp-  
ing-screw  $c^6$  in screw-thread engagement with  
5 the clamping-nut  $c$ , all for the purpose as de-  
scribed.

In testimony whereof I have signed my

name to this specification in the presence of  
two subscribing witnesses.

WILLIAM ORIN ALDRICH.

Witnesses:

SUSIE M. POLLOCK,  
OSCAR L. OWEN.