

(No Model.)

E. KEMPSHALL.
DEVICE FOR COVERING EYELETS.

No. 566,080.

Patented Aug. 18, 1896.

FIG. 1.

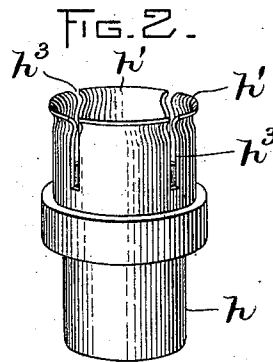
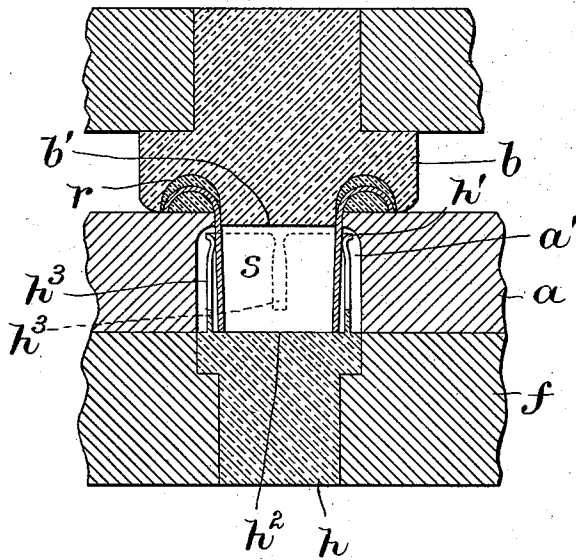


FIG. 3.

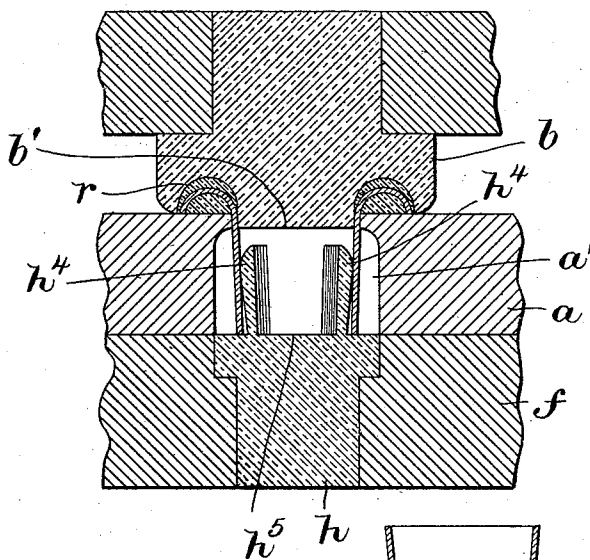
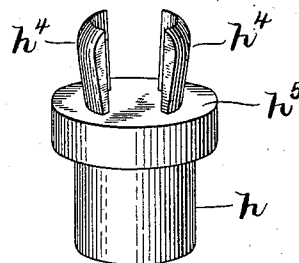


FIG. 4.



WITNESSES:
A. S. Hamlin.
Rollin A. Bell.

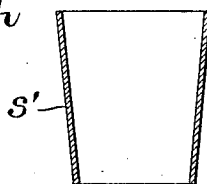


FIG. 5.

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UNITED STATES PATENT OFFICE.

ELEAZER KEMPSHALL, OF NEWTON, MASSACHUSETTS, ASSIGNOR TO
THEOPHILUS KING, TRUSTEE, OF BOSTON, MASSACHUSETTS.

DEVICE FOR COVERING EYELETS.

SPECIFICATION forming part of Letters Patent No. 566,080, dated August 18, 1896.

Application filed November 13, 1895. Serial No. 568,819. (No model.)

To all whom it may concern:

Be it known that I, ELEAZER KEMPSHALL, of Newton, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Devices for Covering Eyelets, of which the following is a specification.

This invention relates to a new and improved mechanism for covering eyelets; and it consists in the novel features of construction and relative arrangement of parts hereinafter fully described in the specification, clearly illustrated in the drawings, and particularly pointed out in the claims.

Reference is to be had to the accompanying sheet of drawings, forming a part of this application, in which like characters indicate like parts wherever they occur.

In the drawings, Figure 1 represents in vertical section my improved eyelet-covering mechanism, showing the eyelet in position. Fig. 2 represents a detail perspective view of the gripping member of the die mechanism. Fig. 3 is a view similar to Fig. 1, showing a different form of gripping member. Fig. 4 represents a detail perspective view of the gripping member shown in Fig. 3. Fig. 5 represents in vertical section a tubular eyelet-blank.

This invention has in view an eyelet-covering mechanism in which one of the members is constructed to grip the eyelet to prevent its being withdrawn from the anvil by the die, and also, incidentally, to act as a support for the eyelet-blank.

a represents an eyelet-holding member or anvil provided with one or more apertures *a'* for receiving the eyelet-blank. *b* represents a die suitably formed for molding a covering, of plastic material *r*, about one end of an eyelet-blank held in the eyelet member or anvil *a*.

f represents a plate carrying one or more gripping members *h*, arranged to engage the eyelet-blank and hold it in the anvil *a* when the die is withdrawn, the latter having a projecting hub *b'*, adapted to extend a slight distance into the eyelet, making a close fit, in order to confine the plastic material *r* to give a finished shape to the article. The hub *b'*, engaging the side of the eyelet, would with-

draw it from the anvil were there not some provision made for resisting this drawing action. When the gripping member is not used for a support, it may be applied to the eyelet before or after the molding process, as desired.

The gripping member *h* (shown in Figs. 1 and 2) is composed of two or more resilient members *h'*, adapted to encircle the eyelet and grip the latter, the eyelet being withdrawn therefrom by separating the plate *f* from the anvil *a* in any desired manner. The end of the tubular portion of the eyelet *s* may rest upon a support *h²*, formed upon the upper part of the member *h*.

When the form of eyelet-blank *s'* (shown in Fig. 5) is used, it will be necessary to have the lower end of the blank rest on this support in order to prevent the eyelet-blank being driven down through the anvil *a*.

The resilient members *h'* may be formed in any desired way. They are here shown as constituting a cylinder slotted in one or more places, as at *h³*. They could, however, be separable pieces screwed into or otherwise attached to the solid part of the member *h*. Instead of the form of the combined gripping member and support shown in Fig. 2, I may employ the form shown in Figs. 3 and 4, where the member *h* carries two or more resilient fingers *h⁴*, adapted to engage the eyelet-blank upon the inside, as shown in Fig. 3, the lower end of the eyelet-blank, when the form shown in Fig. 5 is used, resting upon the support *h⁵*, formed on the outside of the parts *h⁴*.

From the foregoing it will be seen that I am not only enabled, at any desired time, to remove the finished article from the die, but I am also enabled to furnish a support for the lower end of the eyelet-blank.

Having thus explained the nature of my invention and described a way of constructing and using the same, though without attempting to set forth all of the forms in which it may be made or all of the modes of its use, what I claim, and desire to secure by Letters Patent, is—

1. An eyelet-covering mechanism, comprising in its construction, an eyelet-holding member, or anvil, a die constructed to mold a covering about one end of an eyelet arranged in

said anvil, and an automatic gripping member adapted to engage the eyelet-blank upon its exterior, to strip the finished eyelet from the die, substantially as and for the purpose set forth.

5 set forth.
2. An eyelet-covering mechanism, comprising in its construction, an eyelet-holding member, or anvil, a die constructed to mold a covering about one end of an eyelet arranged in
10 said anvil, and a combined spring clamp and support, having a resilient member to engage the opposite end of said eyelet to strip the latter from the die, and having a part arranged to engage the lower end of the eyelet-blank
15 as a support for the latter, substantially as and for the purpose set forth.

3. An eyelet-covering mechanism, comprising in its construction, an eyelet-holding member, or anvil, a die constructed to mold a covering about one end of the eyelet arranged on
20 said anvil, and a resilient gripping member

adapted to engage the eyelet-blank upon its exterior to strip the finished eyelet from the die, substantially as and for the purpose set forth.

4. In combination, a mold having an eyelet-receiving hole, and an eyelet-retainer engaging with the exterior of the body of an eyelet to hold it in place in the said hole.

5. In combination, a mold having an eyelet-receiving hole, and an elastic retainer constructed to receive within it the body of an eyelet, and engaging with the exterior of the eyelet to hold it in place in said hole.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 7th day of November, A. D. 1895.

ELEAZER KEMPSHALL.

Witnesses:

A. D. HARRISON,
ROLLIN ABELL.