No. 724,716. PATENTED APR. 7, 1903.

A. A. KUEHLHORN.

EYELET.

APPLICATION FILED DEC. 18, 1902.

NO MODEL.

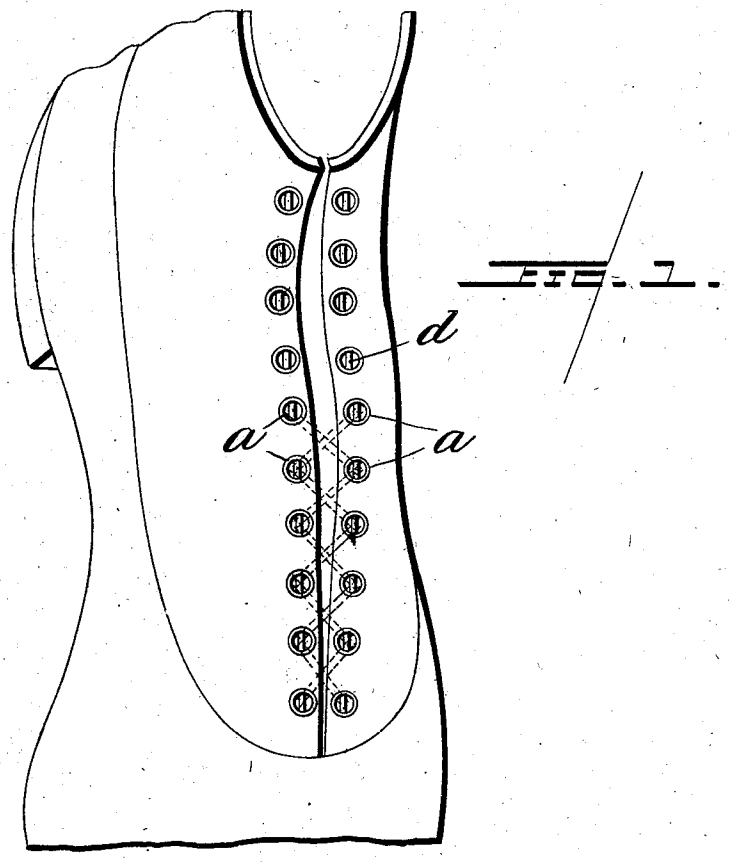


Fig. 1.

Fig. 2.

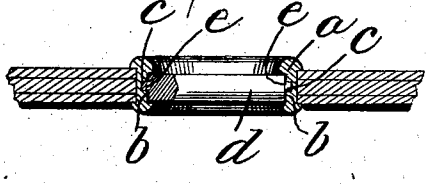
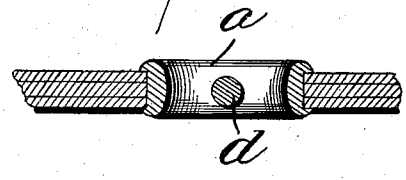


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ARNOLD A. KUEHLHORN, OF LAKOTA, NORTH DAKOTA.

EYELET.

SPECIFICATION forming part of Letters Patent No. 724,716, dated April 7, 1903.

Application filed December 18, 1902. Serial No. 135,807. (No model.)

To all whom it may concern:

Be it known that I, ARNOLD A. KUEHLHORN, a citizen of the United States, residing at Lakota, in the county of Nelson and State of North Dakota, have invented certain new and useful Improvements in Eyelets, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to eyelets to be used in connection with articles of apparel, and the object thereof is to provide devices of this character particularly designed to receive flat lacings which will prevent transverse wrinkling or doubling over of the latter when the same are drawn taut and which will further provide rolling supports for the lacings to reduce the wear thereupon as the same are drawn back and forth through the eyelets.

Other objects of the invention will appear and be understood as the invention is more fully disclosed.

To achieve the end sought, the invention includes an eyelet of any desired shape having a rolling guiding member extending transversely of the widest portion of the guiding-opening provided thereby.

It further includes the particular construction of this guiding member and the arrangement or construction employed for mounting the same in the eyelet proper or the rim of the eyelet.

It also includes the details of construction and combination of parts, as will be hereinafter described, and particularly pointed out in the claim.

While the invention is susceptible of many modifications, the accompanying drawings illustrate what is now conceived to be the preferred embodiment of the same.

In the drawings, Figure 1 shows the invention applied to a shoe-upper. Fig. 2 is a transverse sectional view of the same. Fig. 3 is a similar sectional view taken at right angles to Fig. 2.

As before premised, the improved eyelet is illustrated in the accompanying drawings as applied to a shoe-upper and is shown as of circular contour, having a circular guiding-opening.

The outer rim *a* of the eyelet is, as usual, crimped upon the contiguous portion of the material forming the article to which the same is applied. At diametrically opposite points in the inner face or wall of the rim *a* circular recesses or sockets *b* are located, axially of which small openings or sockets *c* are arranged. Extending transversely of the guiding-opening of the eyelets, with its ends projecting into said sockets *b* and snugly fitting the circular walls thereof, is a cylindrical roller *d*, having axially-arranged end pintles *e*, finding bearings in the openings or sockets *c*. The roller, as shown, extends diametrically across the guiding-opening of the eyelet and provides a guiding member for the lacing which is passed through said opening. By the particular arrangement or construction of the socketed rim having the ends of the guiding member *d* projecting thereinto the lacing is prevented from slipping between the ends of said member and the rim, thus avoiding checking the roller or tearing the lacing, which might occur should the latter become fastened or caught between either end of said roller and the contiguous portion of the rim.

The construction and operation of my invention will be readily understood upon reference to the foregoing description and accompanying drawings, and it will be appreciated that the parts and combinations may be varied within a wide range without departing from the spirit of the same.

What I claim as new, and desire to secure by Letters Patent, is—

As an article of manufacture, an eyelet having diametrically-arranged sockets in the wall of the guiding opening thereof, and openings in the rim axially of said sockets, and a cylindrical rolling guiding member having its ends confined in said sockets, and pintles projecting axially from said ends journaled in said openings, substantially as described.

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

ARNOLD A. KUEHLHORN.

Witnesses:
S. A. FLOREN,
R. C. CUTTING.