F. W. A. SHULTZ.

BOW.

APPLICATION FILED NOV. 4, 1911.

1,067,445. Patented July 15, 1913.

Fig. 1.

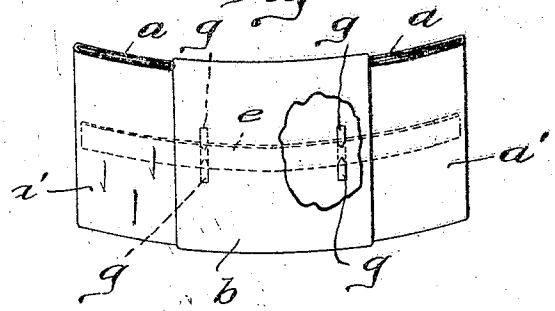


Fig. 2.

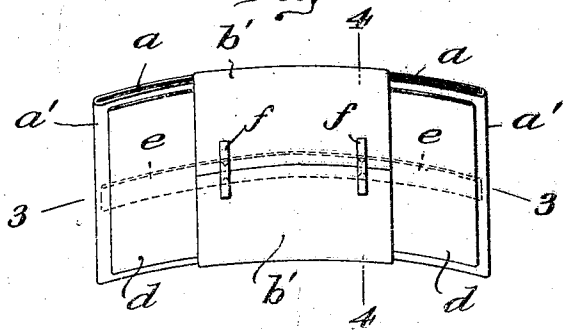


Fig. 3.

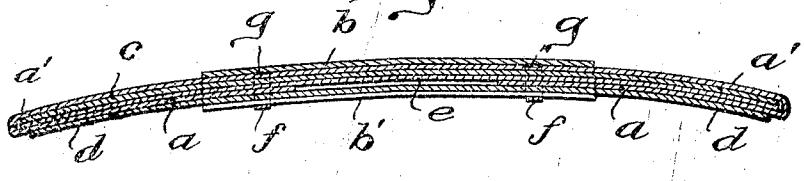
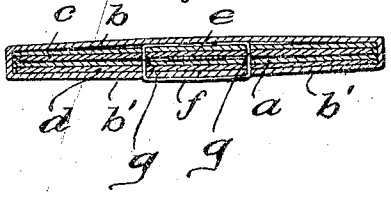


Fig. 4.



Witnesses:

Josephine M. Ryan

Charles S. Whitney

Inventor:

Frederick W. A. Shultz

by Roberts Roberts & Cushman

attys.

BEST AVAILABLE COPY

UNITED STATES PATENT OFFICE.

FREDERICK W. A. SHULTZ, OF QUINCY, MASSACHUSETTS.

BOW.

1,067,445. Specification of Letters Patent. Patented July 15, 1913.

Application filed November 4, 1911. Serial No. 658,547.

To all whom it may concern:

Be it known that I, FREDERICK W. A. SHULTZ, a citizen of the United States, and resident of Quincy, in the county of Plymouth and State of Massachusetts, have invented new and useful Improvements in Bows, of which the following is a specification.

This invention relates to the construction of bows, and more especially bows for pumps and low shoes, and its object is to produce a bow provided with a former, concealed from sight, which may be readily bent to the desired shape to conform to the curve of the shoe or other article on which it is worn, and which when so bent will retain its shape and hold the bow in the form thereby imparted to it.

The invention also consists in novel, improved and simple means for securing the former in place, and for fastening together the former and the various members of which the bow is made up.

In the accompanying drawings, which illustrate one embodiment of the invention, Figure 1 is a plan or front view of a bow containing the invention, part of the cross band being broken away to show one of the fasteners; Fig. 2 is a bottom or rear view of said bow; Fig. 3 is a horizontal section, enlarged, through the middle of said bow on line 3—3 of Fig. 2; and Fig. 4 is a cross section, enlarged, through line 4—4 of Fig. 2.

The bow may be made of any suitable material such as silk or satin ribbon, leather, etc., and consists of a strip of such material with inwardly folded ends, a, a, forming two lateral loops, a', a', and a cross band, b, of the same material extending across the face of said loops with its ends, b', b', meeting on the back side of the bow. Within the laterally extending loops, a', a', there may be a stiffener consisting of a sheet, c, of flexible but relatively stiff material such as stiffened canvas to hold the loops, a', a', extended and prevent them from crumpling or crushing; and a similar sheet of material, d, may be provided on the rear side of the loop ends a, a, and preferably between said loop ends and the ends, b', b', of the cross band, to serve as an attaching strip by which the bow may be sewed or otherwise fastened to the article on which it is worn.

Within the loops, a', a', and preferably between the stiffener c and the ends a, a, of the loops is a former e consisting, as herein shown, of a relatively long and narrow strip of plastic sheet metal, such as zinc. By plastic metal, as the expression is used, is meant a flexible, inelastic metal which may readily be bent into the desired shape and when so bent will retain its shape and hold the bow in the form thereby imparted to it. Sheet zinc is well adapted to the purpose, or any other metal possessing the above characteristics.

A pair of staples or fasteners each having a bridge portion f and two prongs, g, g, are employed to hold the former e in place and to secure the several parts of the bow together. Each staple is inserted from the back side of the bow, with the bridge portion f overlying the ends, b', b', of the cross band, and the prongs, g, g, penetrating said ends, b', b', and the attaching strip d, passing at each side of the former e, and then penetrating the ends, a, a, of the loops, the stiffener c, and the face of the loops, a', a', upon which the ends of said prongs are bent over and clenched. Said fasteners are underneath and wholly concealed from view by the face of the cross band b, and no part of the former or its securing means is visible on the upper or front side of the bow.

Any curve or arch desired may be imparted to the bow with the holder thus secured therein, by merely bending it, and when bent it will retain the desired curve. Thus there is provided a bow of the stiff and conventional design demanded by the present vogue, which may be easily fitted to the curve of the foot, and when so fitted will retain its curve, and which is durable and economical to make, a single form of securement sufficing for holding the former e in place and for fastening the loops, the cross band, the stiffener and the attaching strips together, without the use of sewing or other fastening means in addition to that for securing the former in the bow.

I claim:

1. In a bow having a loop, a former of plastic metal secured within said loop, adapted to retain the shape into which it is bent and to hold the loop in the form thereby imparted to it, and metal fastening means passing through the material of said loop and securing the former in place.

2. In a bow having lateral loops and a cross band, a long and relatively narrow former of plastic metal extending lengthwise within said loops and secured there-

in, adapted to retain the shape into which it is bent, and to hold the bow in the form thereby imparted to it.

3. In a bow having a loop, a former of plastic metal within said loop adapted to retain the shape into which it is bent and to hold the loop in the form thereby imparted to it, and a metal staple securing said former in place, the prongs of said staple passing through and being clenched upon the material of said loop.

4. In a bow having lateral loops and a cross band, a former of plastic metal within said loops adapted to retain the shape into which it is bent and to hold the loops in the form thereby imparted to them, and a staple securing said former to said loops, said staple being concealed on the front side of the bow by the front of said cross band.

5. In a bow having lateral loops and a cross band, a former of plastic metal secured within the loops adapted to retain the shape into which it is bent and to hold the loops in the form thereby imparted to them, and a fastener securing together the loops, the cross band and the former.

6. In a bow having loops made of a strip of suitable material with the ends folded inward, a cross band of suitable material extending across said loops with its ends meeting on the back side of the bow, a former of plastic metal within said loops, and a fastener holding said former in place and passing through the material of one of said loops and the ends of said cross band, and constituting the securement for all of said parts.

7. In a bow having lateral loops made of a strip of suitable material with the ends folded inward, a cross band of suitable material extending across said loops with its ends meeting on the back side of the bow, a stiffener within said loops, a long and relatively narrow former strip of plastic metal extending lengthwise within said loops, an attaching strip located at the rear of said bow, and a double pronged metal staple, the prongs of which pass through the ends of said cross band and through said attaching strip, the material of one of said loops and said stiffener, and at each side of said metal former, securing all of said parts together.

8. An ornamental bow for shoes, comprising strips forming looped wings and a central outer band, a sheet of relatively stiff material within said wings for keeping them flat, and a clenched metal staple extending through said wings, said stiff material, and the rear portion of said central band, whereby said wings are prevented from slipping through said band, said staple being concealed by the front of said band.

9. A bow comprising a former, an inner covering strip extending lengthwise of the former and covering its outer side and ends, the end portions of said strip bearing on the back of the former, and a transverse covering strip extending crosswise of the former and covering the central portion of the inner strip and the edges of said central portion, the end portions of the outer strip overlapping the end portions of the inner strip at the back of the former.

10. A bow comprising a stiffener having a reinforcement of ductile metal adapted to be curved with the stiffener and to retain the curvature, and two covering strips, one extending lengthwise and the other crosswise of the stiffener, the end portions of said strips being bent across the edges of the stiffener and attached to the back thereof.

Signed by me at Boston, Massachusetts, this 31st day of October 1911.

FREDERICK W. A. SHULTZ.

Witnesses:
ROBERT CUSHMAN,
CHARLES D. WOODBERRY.