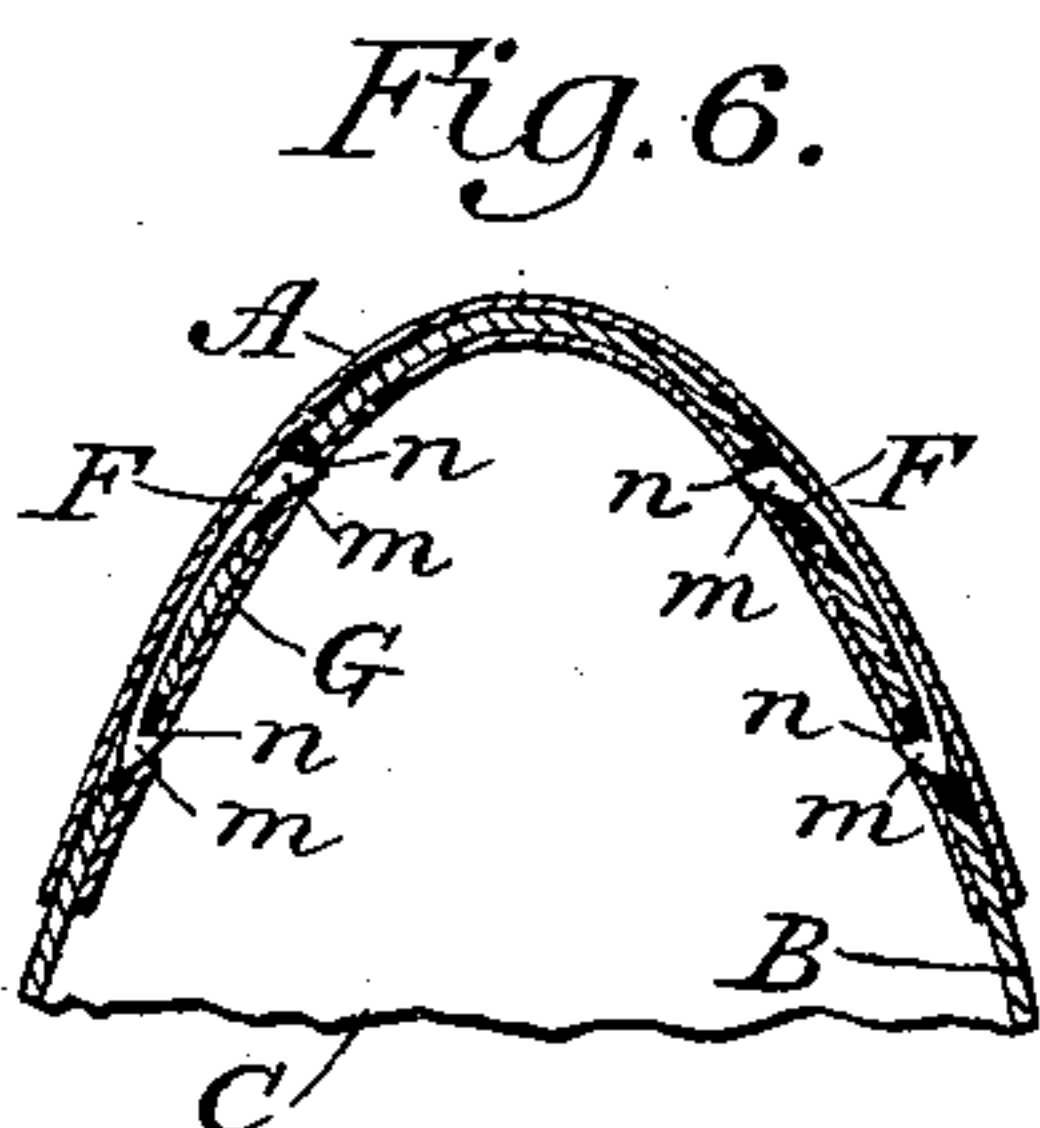
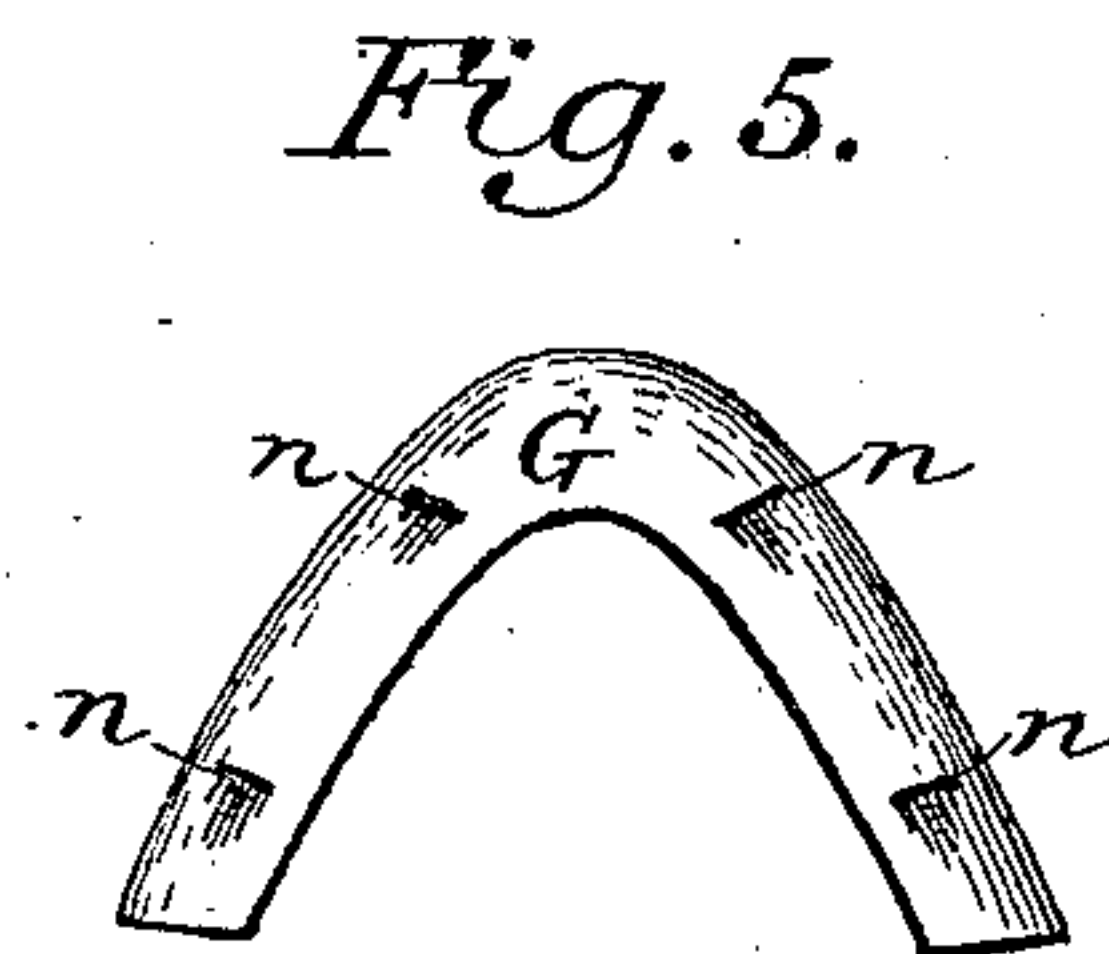
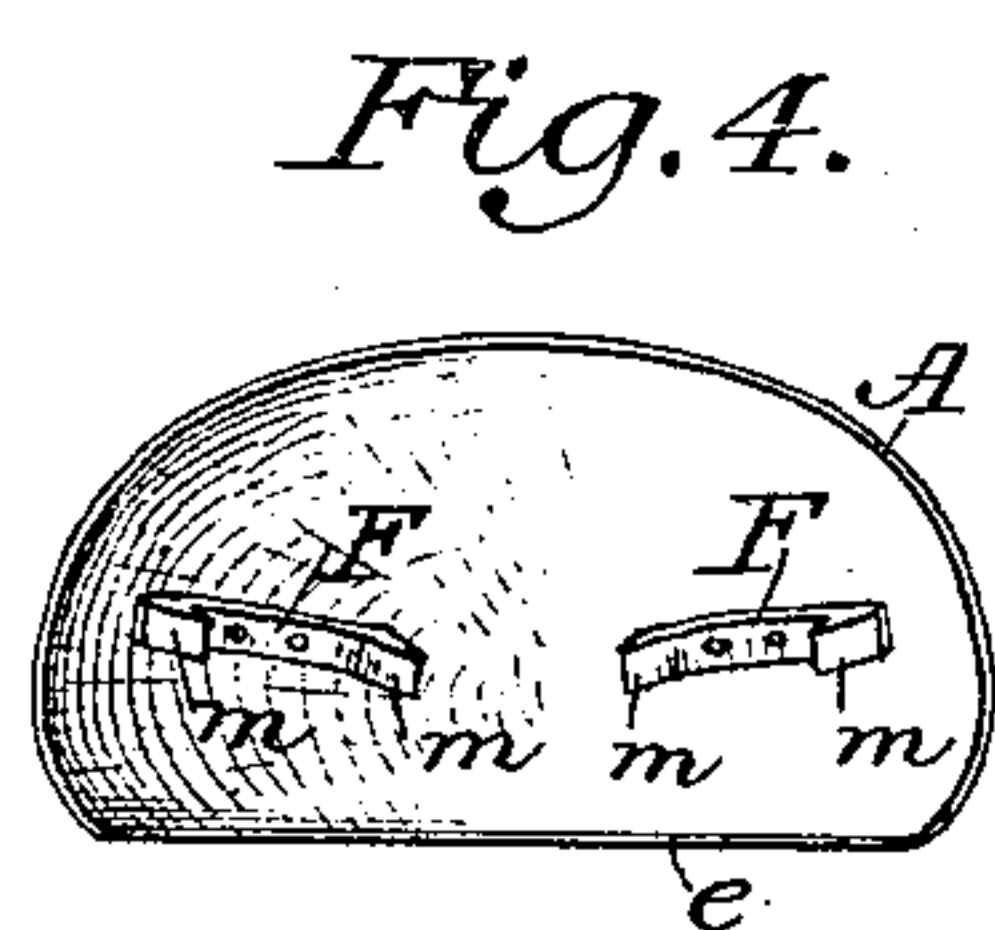
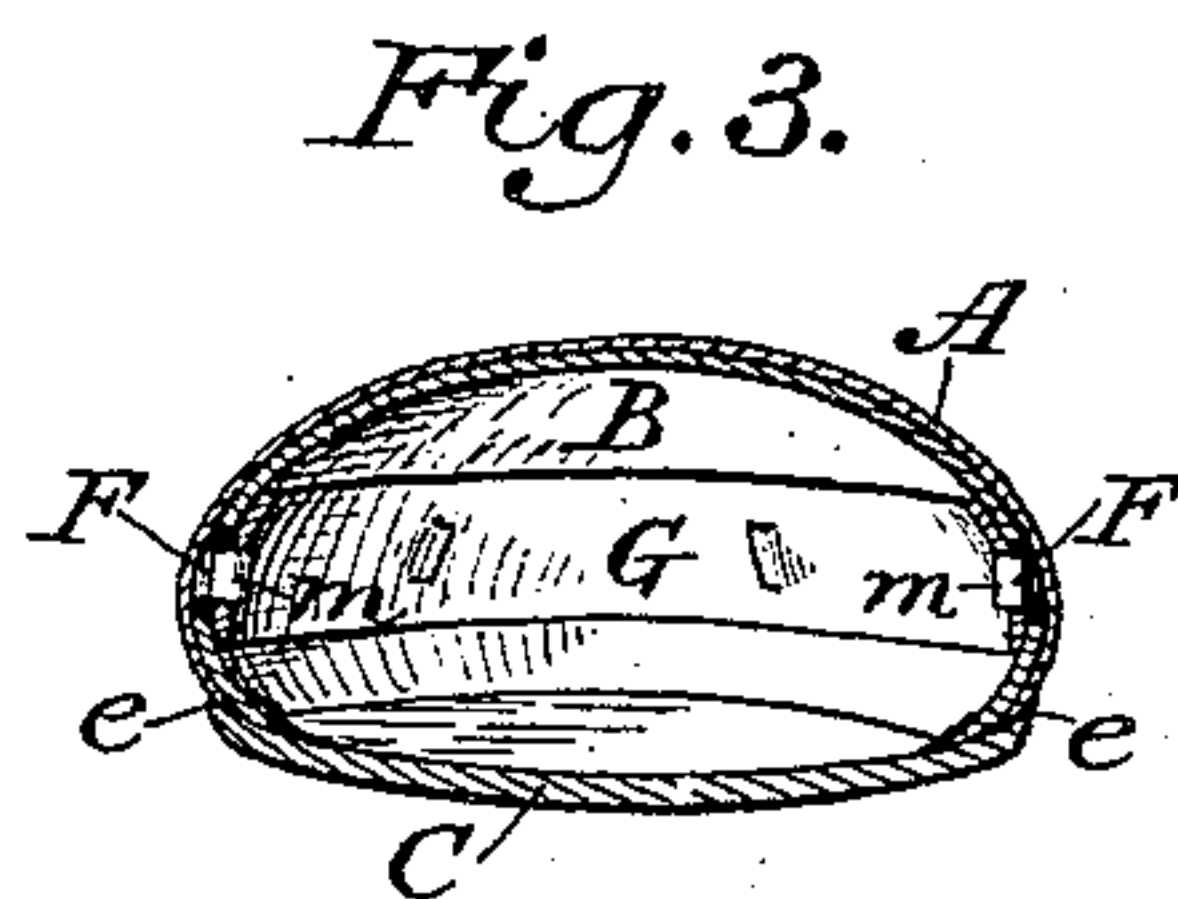
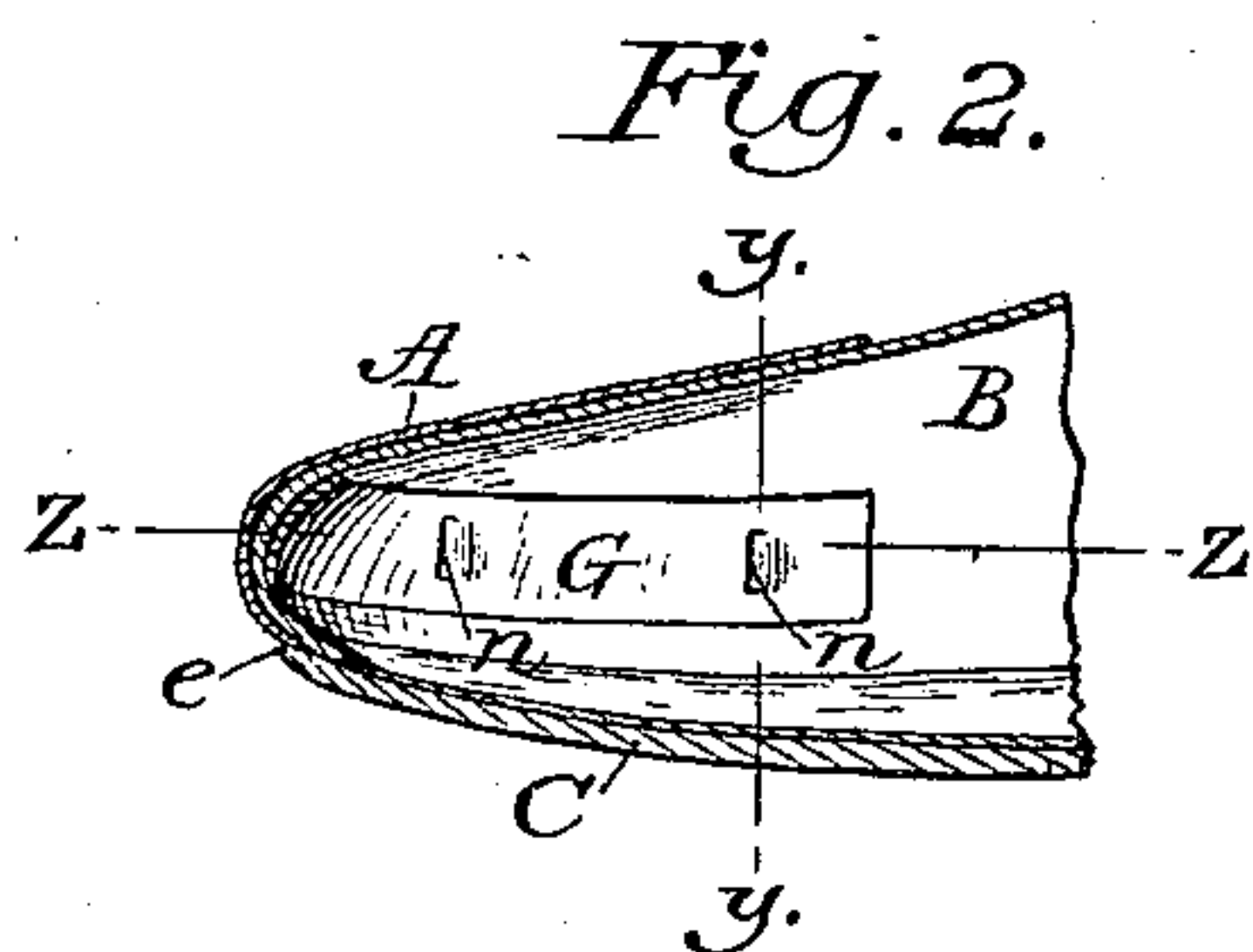
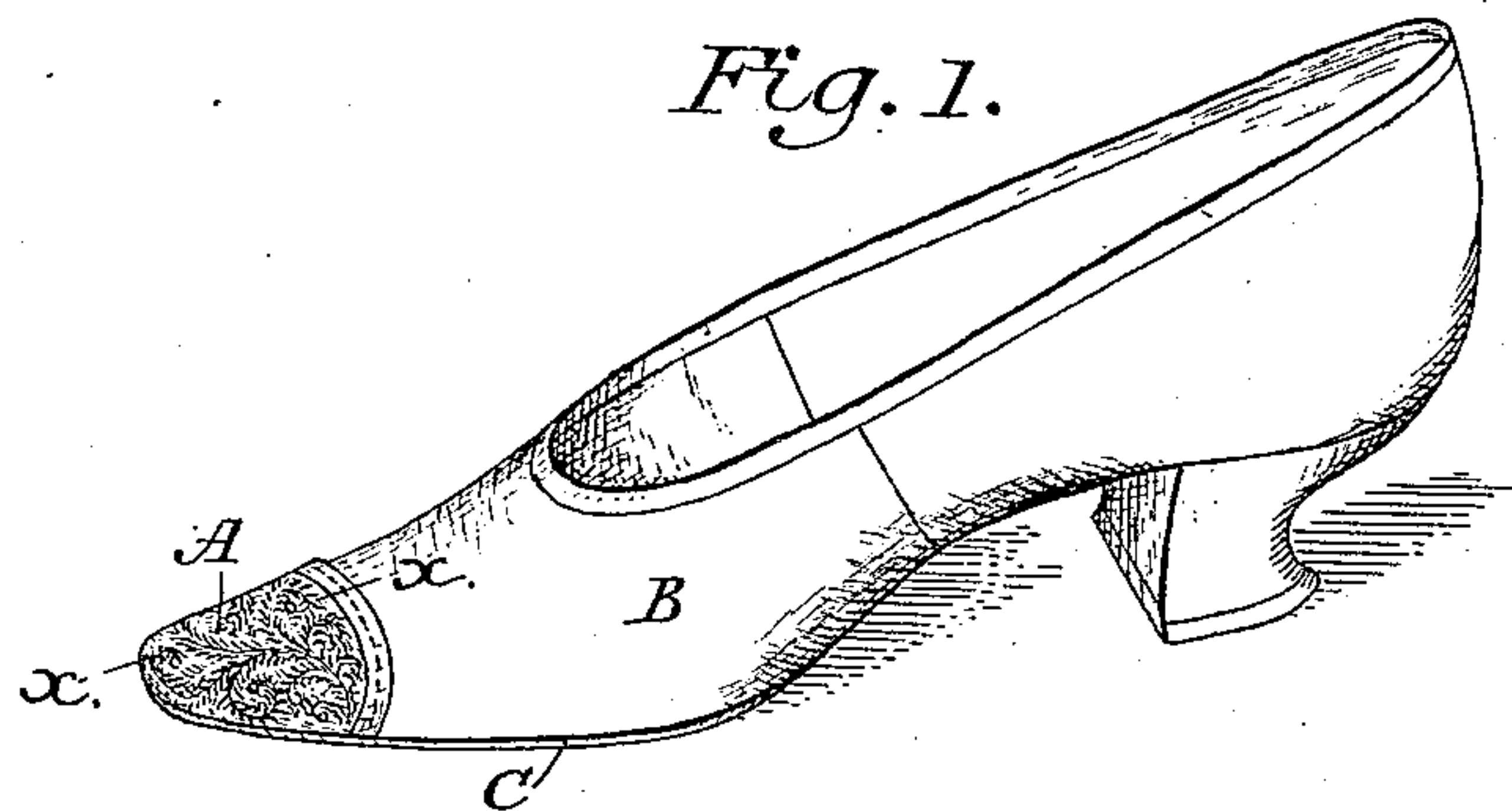


(No Model.)

A. HANSEN.
SHOE TIP.

No. 446,146.

Patented Feb. 10, 1891.



Attest:

A. N. Jespersen.
E. M. Watson

Inventor:

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Atty.

UNITED STATES PATENT OFFICE.

ADOLPH HANSEN, OF BROOKLYN, NEW YORK.

SHOE-TIP.

SPECIFICATION forming part of Letters Patent No. 446,146, dated February 10, 1891.

Application filed November 4, 1890. Serial No. 370,312. (No model.)

To all whom it may concern:

Be it known that I, ADOLPH HANSEN, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Shoe-Tips; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to an improvement in the application of metallic tips to shoes, and has for its object to provide for the ready attachment of ornamental tips to shoes, slippers, &c., in manner to permit of their ready detachment.

It consists in the combination, with a metallic shoe-tip, of devices, substantially as is hereinafter described and claimed, for the attachment of the tip to a boot, shoe, or slipper.

In the accompanying drawings, Figure 1 is a view in perspective of a lady's slipper fitted with my improved tip; Fig. 2, a central vertical section in line $x x$ at the toe of the slipper; Fig. 3, a transverse section in line $y y$ of Fig. 2; Fig. 4, an end or interior view of the tip detached from the slipper; Fig. 5, a detail view of the locking-strip by which the tip is confined on the slipper, and Fig. 6 a horizontal section in line $z z$ of Fig. 2.

The tip A consists of a shell or casing made of thin sheet metal or of hard rubber or leather or other suitable hard, light, durable material capable of being embossed, engraved, or otherwise ornamented. This shell or casing, hereinafter termed the "tip," is fashioned to conform with exactitude to the shape of the toe of the boot, shoe, or slipper to which it is to be attached, being made as nearly as possible a counterpart thereof in form, so as to fit neatly over and upon the upper part of the toe and embrace the same closely above the sole C. The bottom of the tip is left open, and its lower edge e is adapted to enter and be concealed in the joint between the upper and sole of the slipper B, as shown in Figs. 1, 2, and 3.

A longitudinal strip F, having an offset m at each end thereof, (see Figs. 3, 4, and 6,) is secured upon each side of the inner face of

the tip A, each offset having an abrupt face next to the inner end of the tip at a right angle with the length of the strip, and a beveled face inclined toward the outer end of the tip, as shown in Figs. 4 and 6. The toe portion of the slipper B, to which the tip is to be fitted, is perforated at appropriate points to permit these offsets $m m$ to project through the same when the tip is properly fitted thereon, and the offsets will thereupon operate to prevent the tip from slipping automatically forward off of the toe.

To further insure the fastening of the tip, a thin elastic locking plate or strip G is provided, of a form to correspond with the form of the inner face of the tip A, on a line with its offsets $m m$, and having recesses or apertures $n n$ therein (see Fig. 5) to register with said offsets m , so that the latter may be made to enter the same. When the tip A has been fitted upon the toe of the slipper B, with its offsets $m m$ projecting inward through the apertures $n n$ in the toe, the locking-plate G is inserted within the toe and sprung over the projecting offsets so as to engage the same. The tip is thus locked by means of the plate G, and the plate serves also to cover the ends of the offsets m , so that they will not prove objectionable to the wearer. The elasticity of the locking-plate G permits it not only to be readily sprung upon the offsets of the tip within the toe of the boot, shoe, or slipper to which the tip is applied, but also to be readily detached when it is desired to remove the tip. The tip thus readily attached to and detached from the toe of a boot, shoe, or slipper serves as a protection therefor and is not only useful as a guard, but also may be made a very neat and attractive ornament for the toe, for which purpose it will be found especially desirable in connection with ladies' dancing-slippers.

I claim as my invention—

1. The combination, in a detachable tip for boots, shoes, or slippers, of an outer shell or casing conforming to the upper of the toe and having inwardly-projecting offsets, and a separable locking plate or strip conforming to the inner face of the tip and recessed or perforated to engage said offsets and adapted

to be applied within the shoe, substantially in the manner and for the purpose herein set forth.

2. The combination, with a boot, shoe, or
5 slipper, of a tip or covering-plate for the toe having offsets upon its inner side projecting through perforations in the toe, and a locking-plate fitted within the toe to engage the inwardly-projecting offsets, substantially in

the manner and for the purpose herein set forth.

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

ADOLPH HANSEN.

Witnesses:

A. N. JESBERA,
E. M. WATSON.