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PATENTED NOV. 12, 1907.

H. FULLER.

RUBBER TIP AND MEANS FOR SECURING IT.

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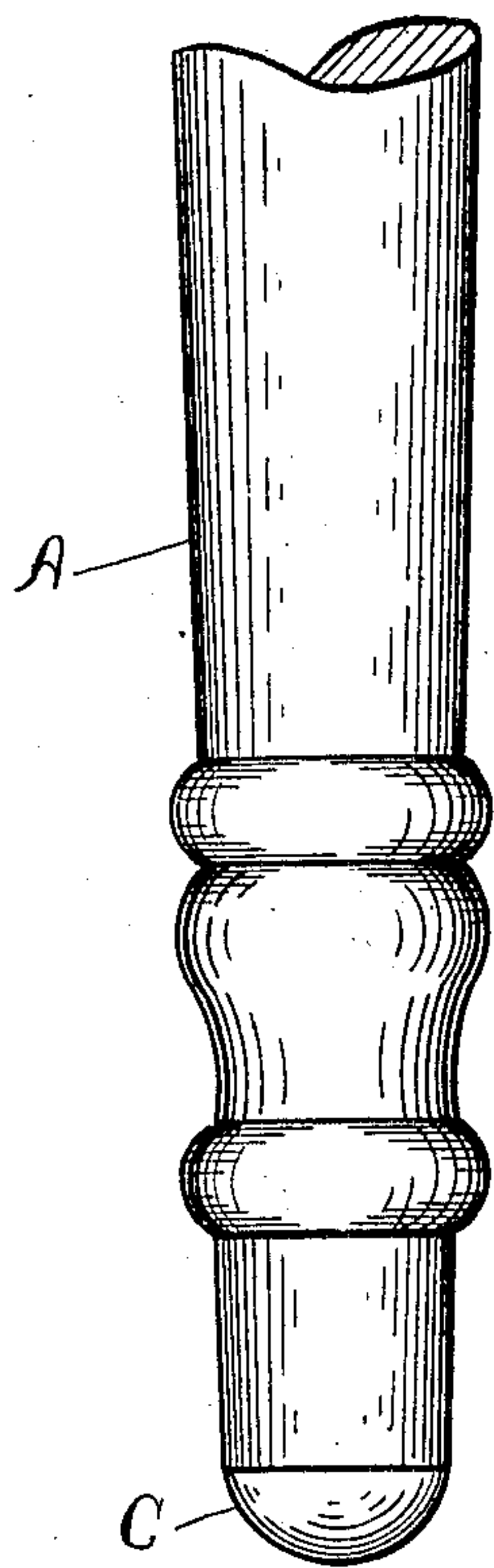


Fig. 1.

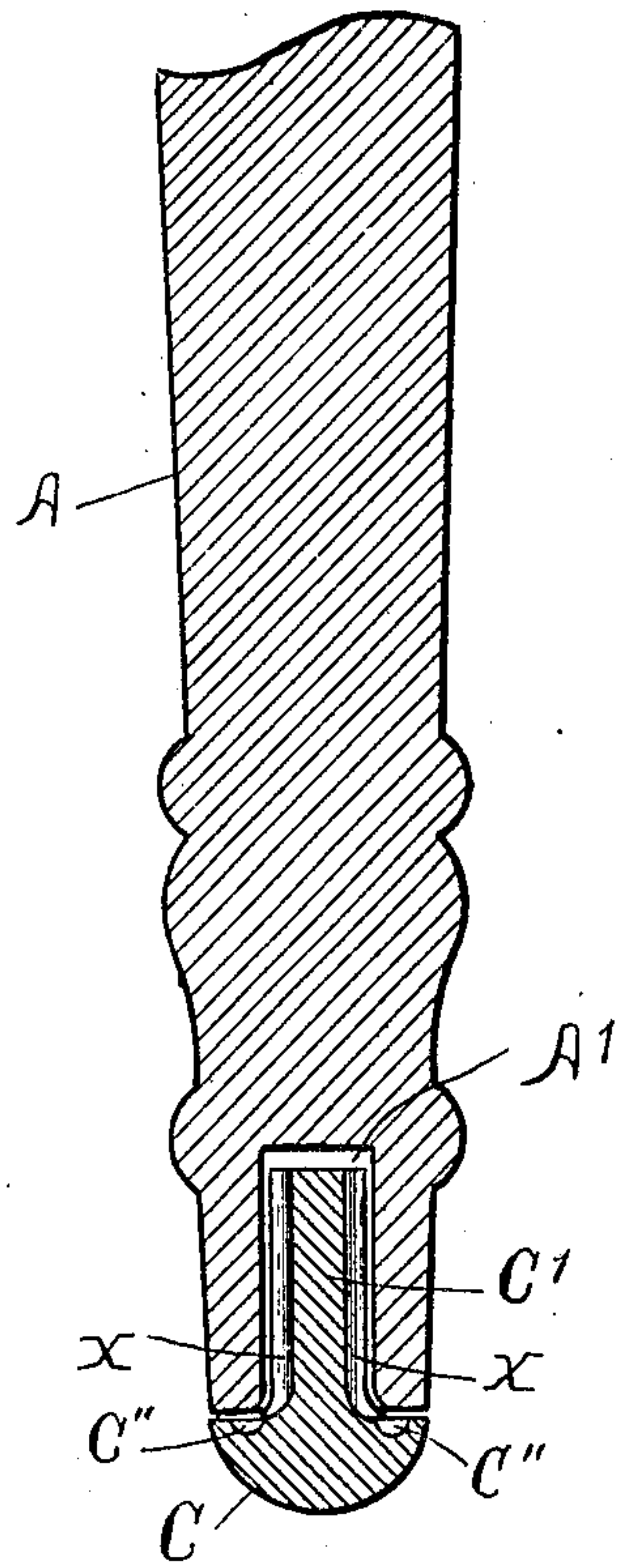


Fig. 2.

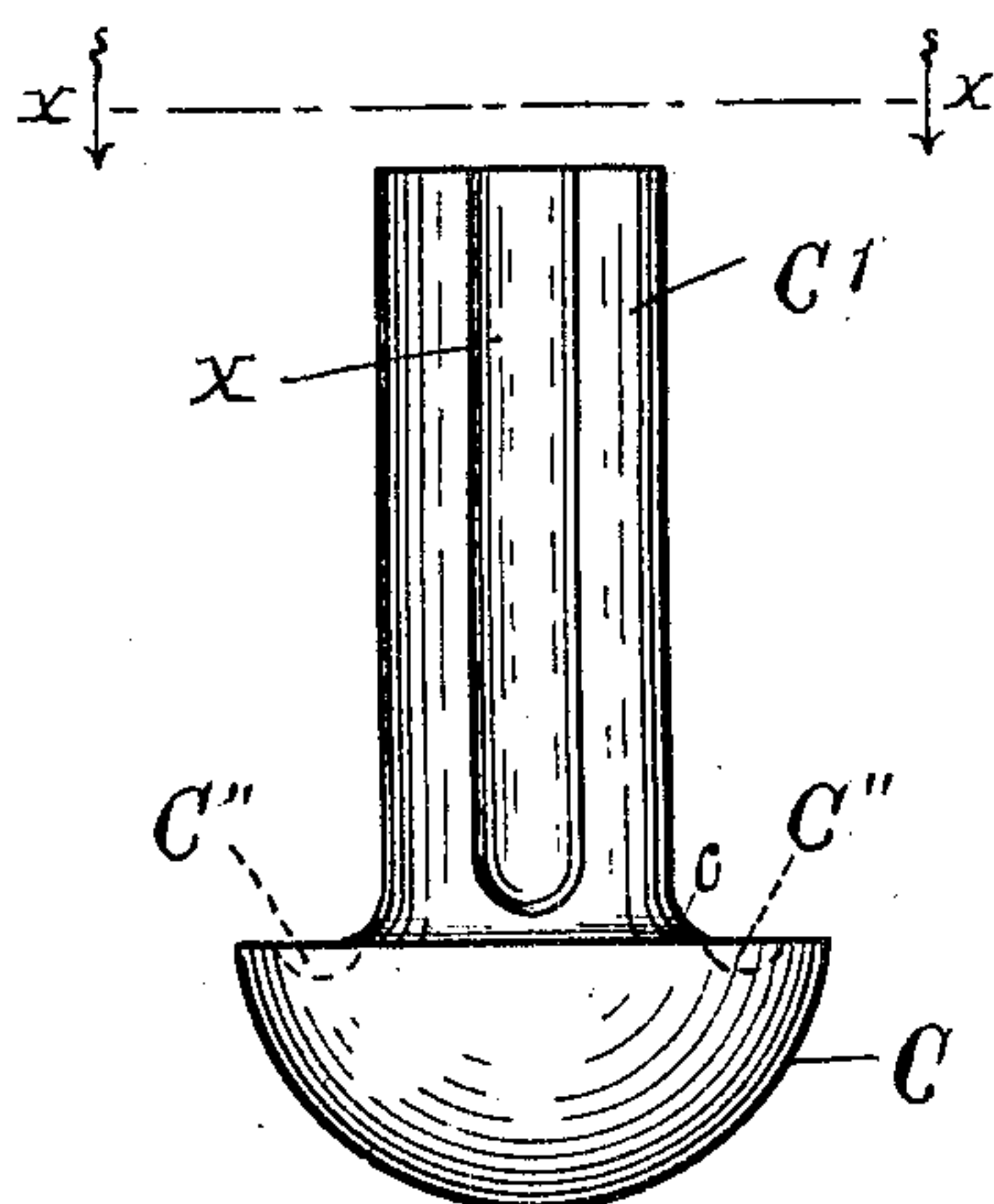


Fig. 3.

Witnesses:  
Adelaide Kearns.  
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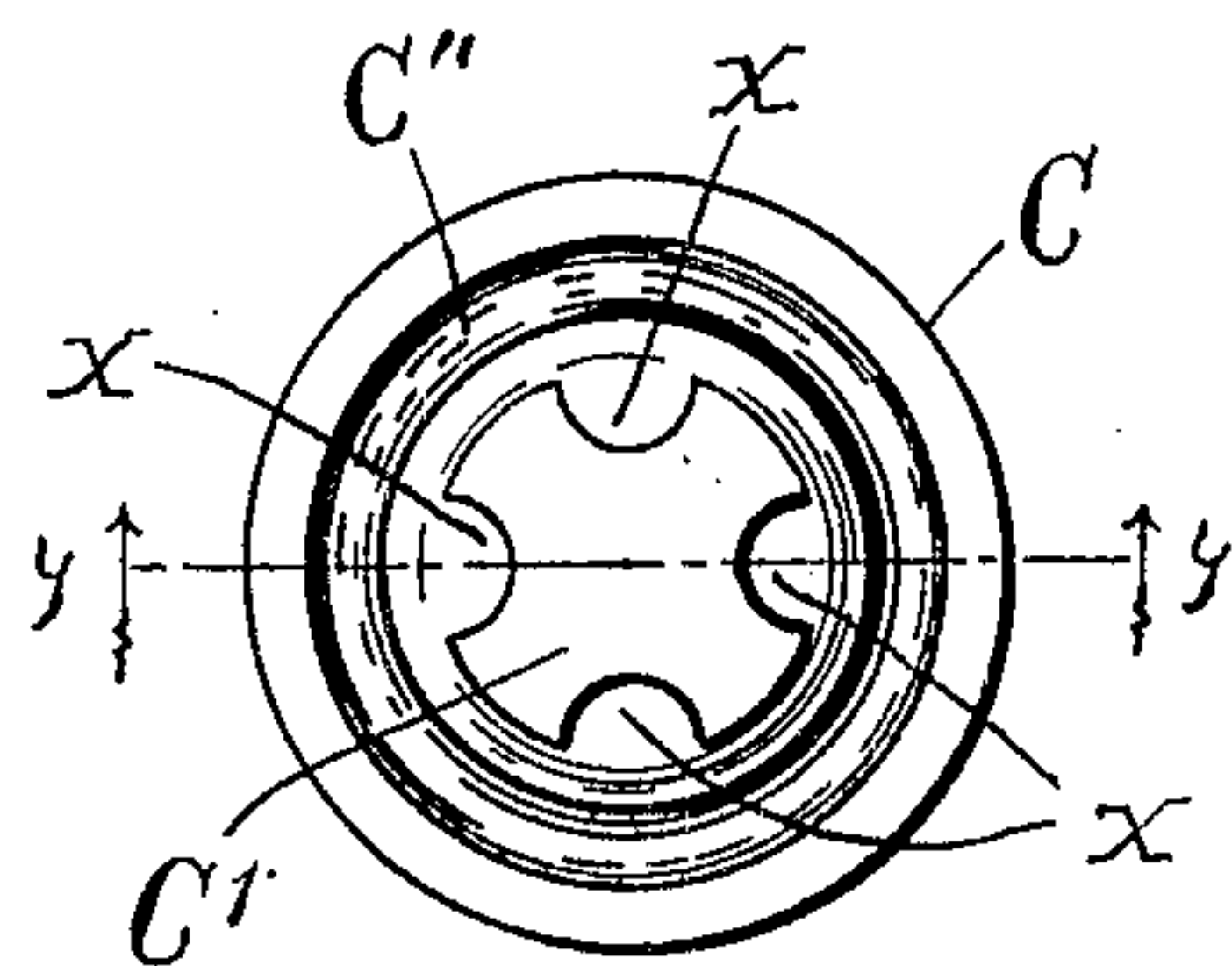


Fig. 4.

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# UNITED STATES PATENT OFFICE.

HARRIS FULLER, OF STOCKBRIDGE, GEORGIA.

## RUBBER TIP AND MEANS FOR SECURING IT.

No. 870,770.

Specification of Letters Patent.

Patented Nov. 12, 1907.

Application filed March 20, 1907. Serial No. 363,347.

*To all whom it may concern:*

Be it known that I, HARRIS FULLER, a citizen of the United States, residing at Stockbridge, in the county of Henry and State of Georgia, have invented certain new and useful Improvements in Rubber Tips and Means for Securing Them, of which the following is a full, complete, and accurate specification.

The object of my present invention is to provide a tip for chair-legs or the like which will prevent noise when the chair or the like to which they are attached is moved, and will also prevent damage to the floor.

Another object is to provide a tip composed of a resilient material which may be easily and securely fastened in place, and which will not mar or otherwise disfigure the article to which it is attached. And, finally, my object is to provide a rubber tip for chairs or the like which will be durable in construction and which can be manufactured and sold at a comparatively low price.

Other objects and advantages will be made apparent in the course of the ensuing specification.

The preferred manner for the construction and application of my invention is shown most clearly in the accompanying drawings, in which—

Figure 1 is a side elevation of my invention as attached to a chair-leg. Fig. 2 is a vertical central sectional view of my invention and a portion of a chair-leg to which it is attached. Fig. 3 is a side elevation of my invention in elevation—and Fig. 4 is a top plan view of the same.

Similar reference characters denote like parts throughout the several views of the drawings.

The letter A denotes a portion of a chair-leg or the like.

The letter C refers to the knob of my invention.

The character C<sup>1</sup> denotes a pintle or protuberance extending up from the flat-face of the knob with which it is integral. Said pintle C<sup>1</sup> has four grooves, represented by the character x, divided an equal distance apart and extending from the outer end of the pintle C<sup>1</sup> to near the knob C, as shown most clearly in Figs. 3 and 4.

The character A<sup>1</sup> designates a round opening extending centrally and longitudinally into the leg A from its lower end. The mouth of said opening is formed flaring in order to dispense with the sharp edge that would otherwise appear.

The character C'' denotes a half-round channel formed around the pintle C<sup>1</sup> and located in the inner face of the knob C, as clearly shown in Figs. 3 and 4.

As plainly indicated in the drawings, that portion of the tip where the pintle meets the knob is outwardly

flared, at the neck c, to provide additional strength to the article at the place subjected to greatest strains, such flaring conforming substantially to the aforesaid flare at the mouth of the opening A<sup>1</sup>, and being proximate to said channel C'', and adjacent to which the said grooves x terminate.

The lower end of the chair-leg being first prepared as set forth, and as shown in Fig. 2, and the knob and pintle being formed as shown in Figs. 3 and 4, the assembling is performed as follows: The pintle C<sup>1</sup> and the inner face of the knob C are covered with a coating of adhesive, such as glue or the like, allowing said adhesive to fill the grooves x, and the channel C''. After the above the pintle C<sup>1</sup> is inserted in the opening A<sup>1</sup> allowing the shoulder, that is the inner face of the knob C, to contact with the lower end of the chair-leg A, as shown in Figs. 1 and 2.

It is apparent that by the above described arrangement the grooves x and the channel C'' will hold a body of the adhesive material thereby contributing to securing the tip in place.

From the above it is apparent that I have produced an improved tip and also have provided improved means for retaining the tip in place, and have accomplished the objects hereinbefore stated.

Various changes may be made in the shape and construction of my invention and the manner of its attachment without departing from the spirit of my invention or sacrificing any of the many advantages.

It is to be noted that the upper side or surface of the knob C, excepting at the groove C'', is in close contact with the lower-end portion of the member A, when the tip is properly applied thereto. Of course the groove C'' provides a space between the knob C and the member A and such space receives adhesive material in such a sufficient quantity as to effectively attach the body of the knob to the leg A. In like manner the surface of the pintle is most securely connected with the leg A, by not only the adhesive substance between its smooth portions and the sides of the bore or opening A<sup>1</sup>, but by the collected quantities of adhesive material received in the longitudinal grooves of the pintle C<sup>1</sup>, said grooves occurring between the several smooth portions aforesaid.

Having now fully shown and described my invention and the best means for its construction and application to me known at this time, what I claim and desire to secure by Letters Patent of the United States, is.

In combination, a furniture leg provided with a longitudinal opening at its lower end, and a rubber tip therefor comprising a knob of hemi-spherical shape formed with an

5 integral pintle projecting from the upper side thereof and received in the opening aforesaid, the upper side of the knob being formed with a groove concentric of the pintle and said side being in close contact with the lower end of the leg except where the groove above mentioned is located, said groove forming a space receiving adhesive material, and the pintle being formed with a plurality of longitudinal grooves at intervals providing spaces in which an adhesive substance is received, the smooth portions of the

pintle located between the grooves thereof being in close adhesive contact with the sides of the opening in which said pintle is received. 10

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

HARRIS FULLER.

Witnesses:

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SAMUEL J. LEE.