

No. 789,510.

PATENTED MAY 9, 1905.

G. R. STETSON.
TIP FOR CHAIR LEGS, &c.
APPLICATION FILED AUG. 13, 1904.

Fig. 1

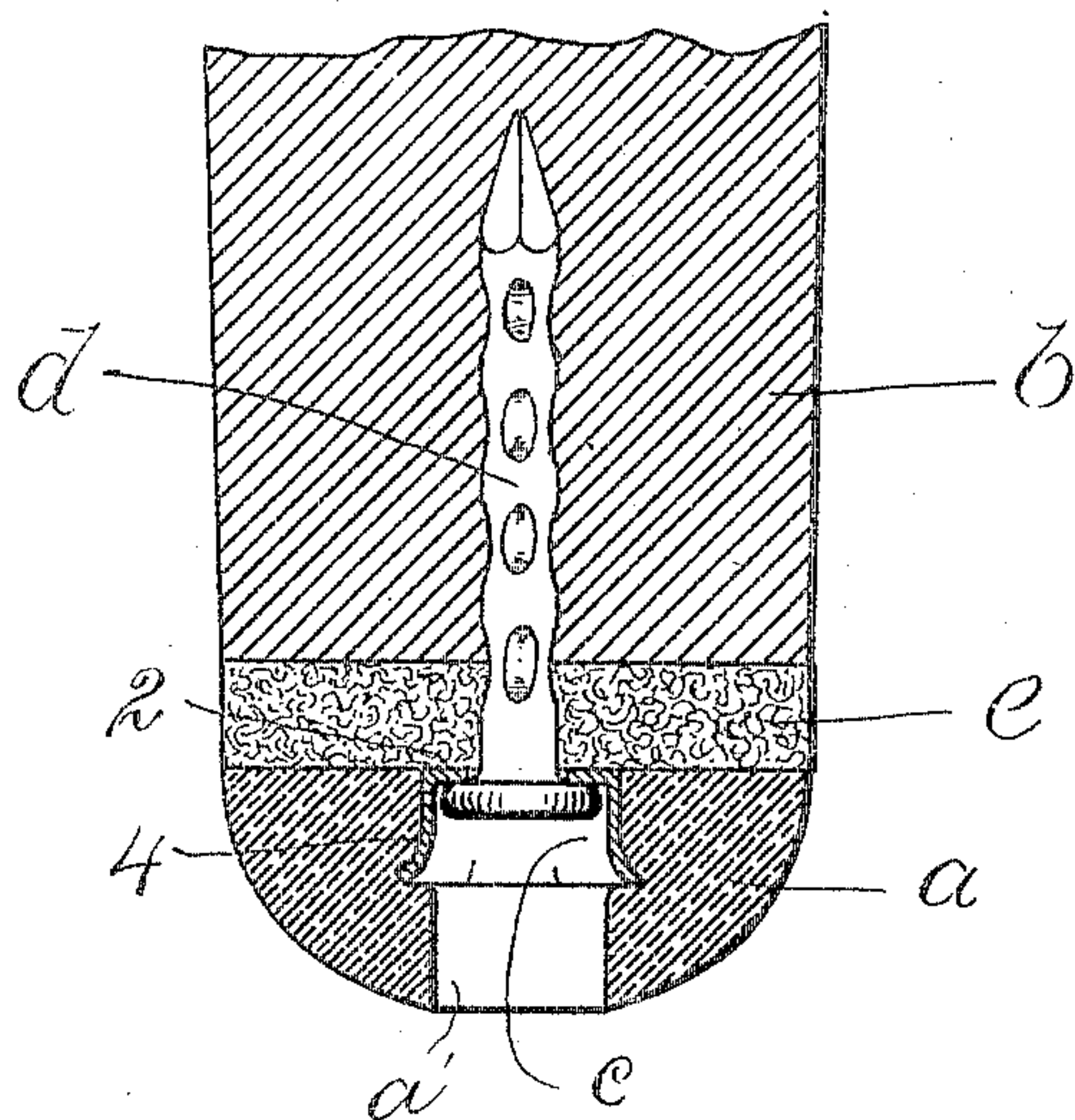


Fig. 2

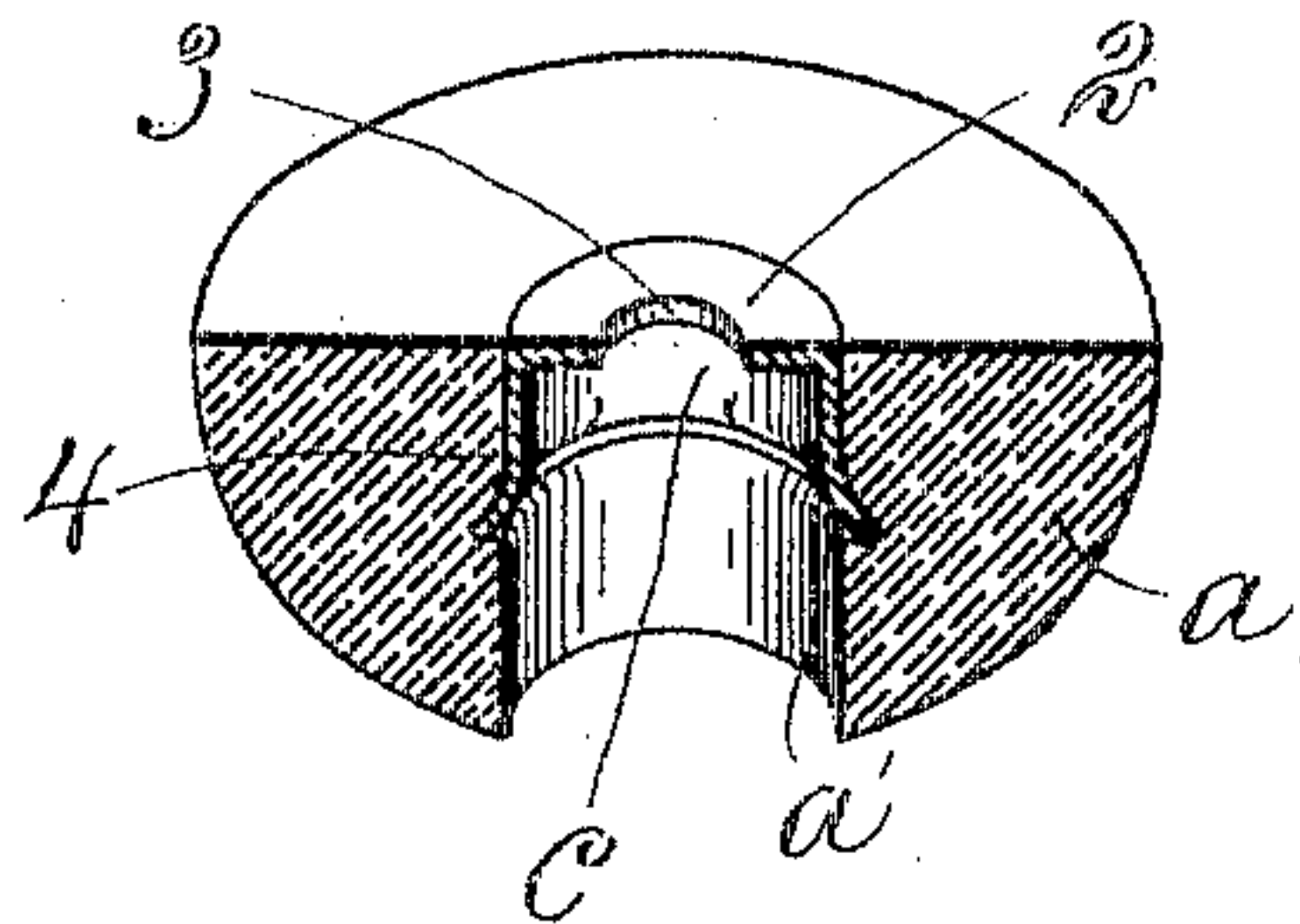


Fig. 3

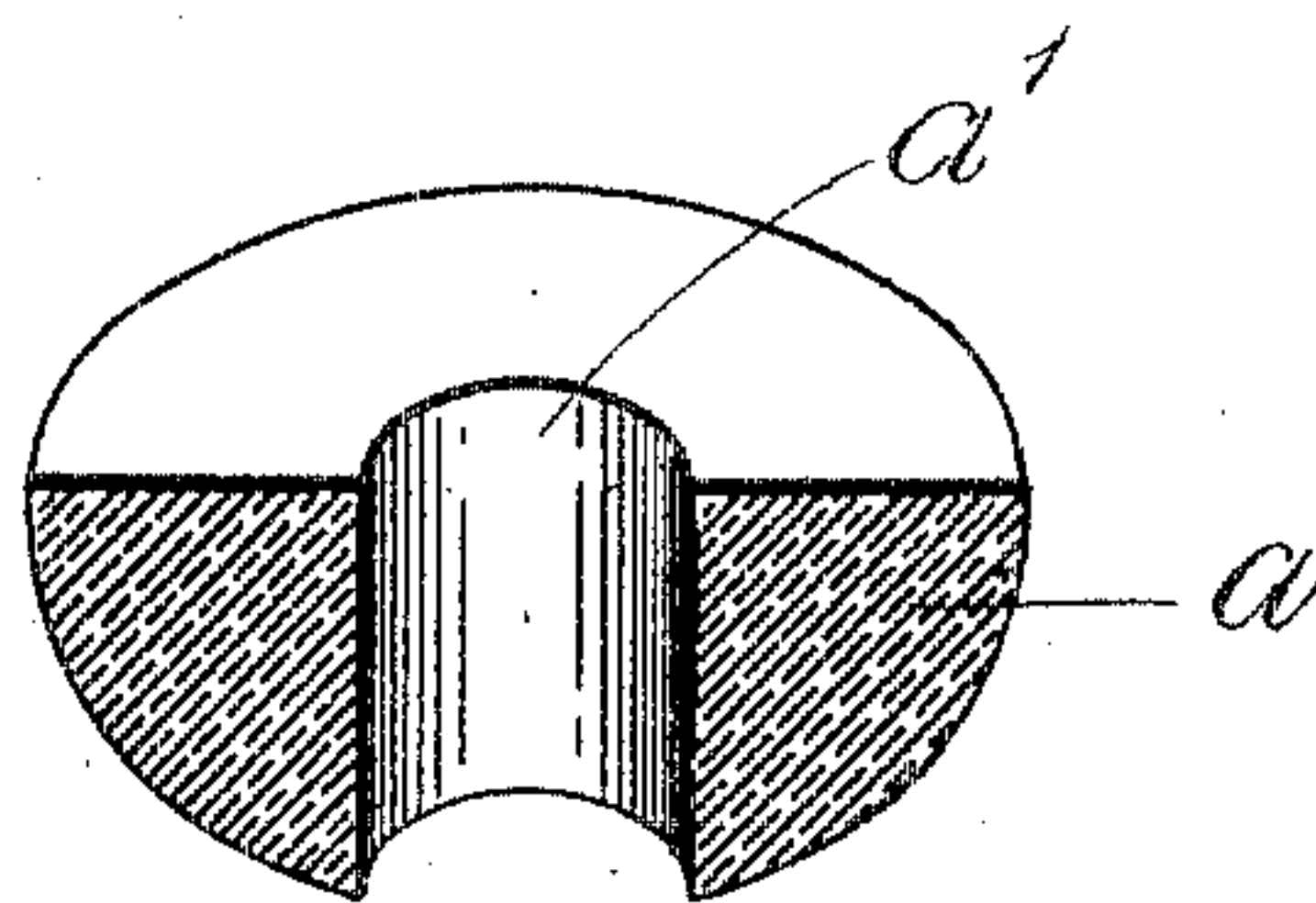
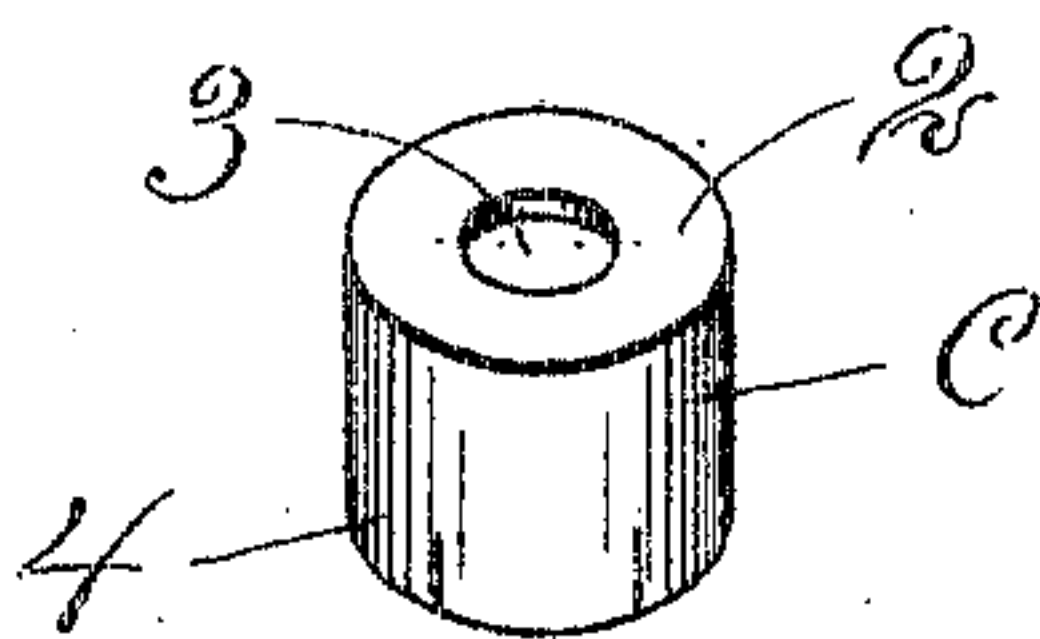


Fig. 4



Witnesses.

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UNITED STATES PATENT OFFICE.

GEORGE R. STETSON, OF NEW BEDFORD, MASSACHUSETTS.

TIP FOR CHAIR-LEGS, &c.

SPECIFICATION forming part of Letters Patent No. 789,510, dated May 9, 1905.

Application filed August 13, 1904. Serial No. 220,634.

To all whom it may concern:

Be it known that I, GEORGE R. STETSON, of New Bedford, in the county of Bristol and State of Massachusetts, have invented certain
5 new and useful Improvements in Tips for Chair-Legs, &c., of which the following is a specification.

This invention relates to tips of flexible material adapted for attachment to chair-legs to
10 reduce to the minimum the noise of the scraping of the legs upon the floor when the chair is moved about. A tip of this character has heretofore been made by counterboring a
15 piece of sole-leather to form a nail-receiving orifice which is contracted at one end, the contracted end forming a flange which engages the head of an attaching-nail and is integral with the body of the tip. The tip is secured
20 to a chair-leg by driving a nail, which is inserted in the orifice, into the leg of the chair.

My invention has for its object to provide a tip for the described purpose of greater strength and durability than heretofore and one which is adapted to slide more freely upon
25 the attaching-nail, so that when the tip is backed by a yielding cushion or washer interposed between it and the chair-leg the tip will be free to move upon the nail to the extent required by the compression of the
30 washer.

The invention consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings, forming a
35 part of this specification, Figure 1 represents a sectional view of a portion of a chair-leg and a tip embodying my invention attached thereto. Fig. 2 represents a sectional perspective view of the tip removed from the
40 leg. Figs. 3 and 4 represent perspective views of the parts of the tip before they are united, Fig. 3 being a perspective sectional view.

The same reference characters indicate the same parts in all the figures.

45 In the drawings, *a* represents a tip, which is preferably of sole-leather or other yielding material, adapted to be moved about upon a floor without objectionably loud noise when the tip is attached to a chair-leg *b*.

In carrying out my invention I form the
50 tip *a* with an orifice *a'* of uniform diameter, extending through the tip from side to side, and then engage with the tip a sheet-metal bushing *c*, which is composed of a head portion 2, having an orifice 3 for the reception of
55 the shank of an attaching-nail *d*, and a tubular body or flange 4, extending from the head 2, said body having an expansible mouth. The bushing *c* is affixed to the tip *a* by inserting the tubular body 4 in the orifice *a'*
60 until the head 2 is flush with the upper surface of the tip and then upsetting or expanding the open end of the body 4 after the insertion of the bushing in the tip in such manner as to cause said end to indent the margin
65 of the orifice in the tip *a*, as shown in Figs. 1 and 2. The bushing is thus firmly secured to the tip, and its head 2 is caused to serve as a seat for the head of the attaching-nail *d*.
70 The body 4 of the bushing is adapted to slip freely on the nail-head, as may be required by the compression of a felt or other compressible washer *e*, interposed between the tip and the chair-leg.

As above stated and as shown in Fig. 1, the
75 upper surface of the head 2 is flush with the upper surface of the tip *a*. The compressible washer *e* therefore equally opposes upward movement of either the bushing *c* or the tip
80 *a*, movement of both the bushing and the tip being equally resisted by the compressible washer. When the device is in use and there is any movement of the tip and bushing toward or from the chair-leg, the head of the
85 bushing slides on the shank of the nail *d*; but said head prevents any liability of the washer or parts of the washer working down around the nail so as to interfere with the desirable yielding movements of the tip.

It will be seen that the described construction of the tip *a* insures maximum strength
90 and durability and enables the tip to be made of a cheaper quality of leather or other material than would be required if the seat for the nail-head were integral with the body of
95 the tip.

I claim—

A tip for chair-legs, &c., comprising a

body of suitable yielding material having a central orifice, and a metallic bushing inserted in said orifice from the tread side, said bushing having a head forming a seat for the
5 head of an attaching-nail, and a tubular body having an expansible mouth which is spread or enlarged after the insertion of the bushing to indent and engage the yielding material of

the tip, the head of the bushing extending inward and having an orifice for the nail. 10

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

GEORGE R. STETSON.

Witnesses:

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C. A. BATES.