

A. A. WORZEN.
HAT PIN POINT PROTECTOR.
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999,079.

Patented July 25, 1911.

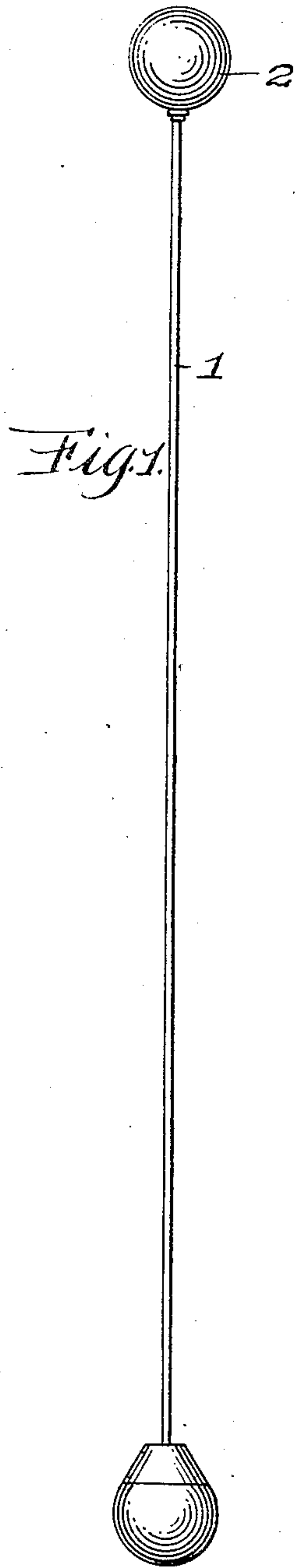


Fig. 1.

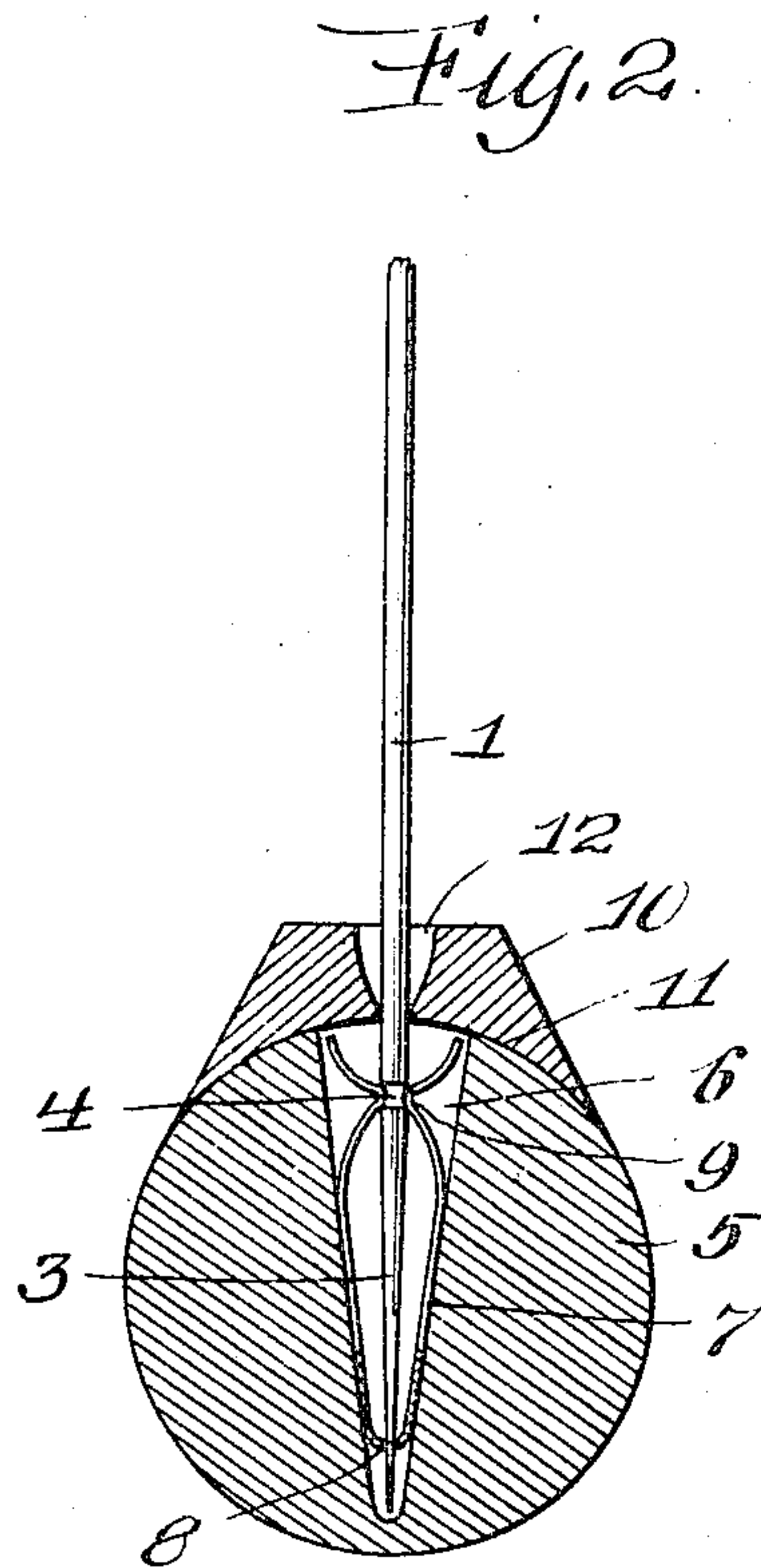


Fig. 2.

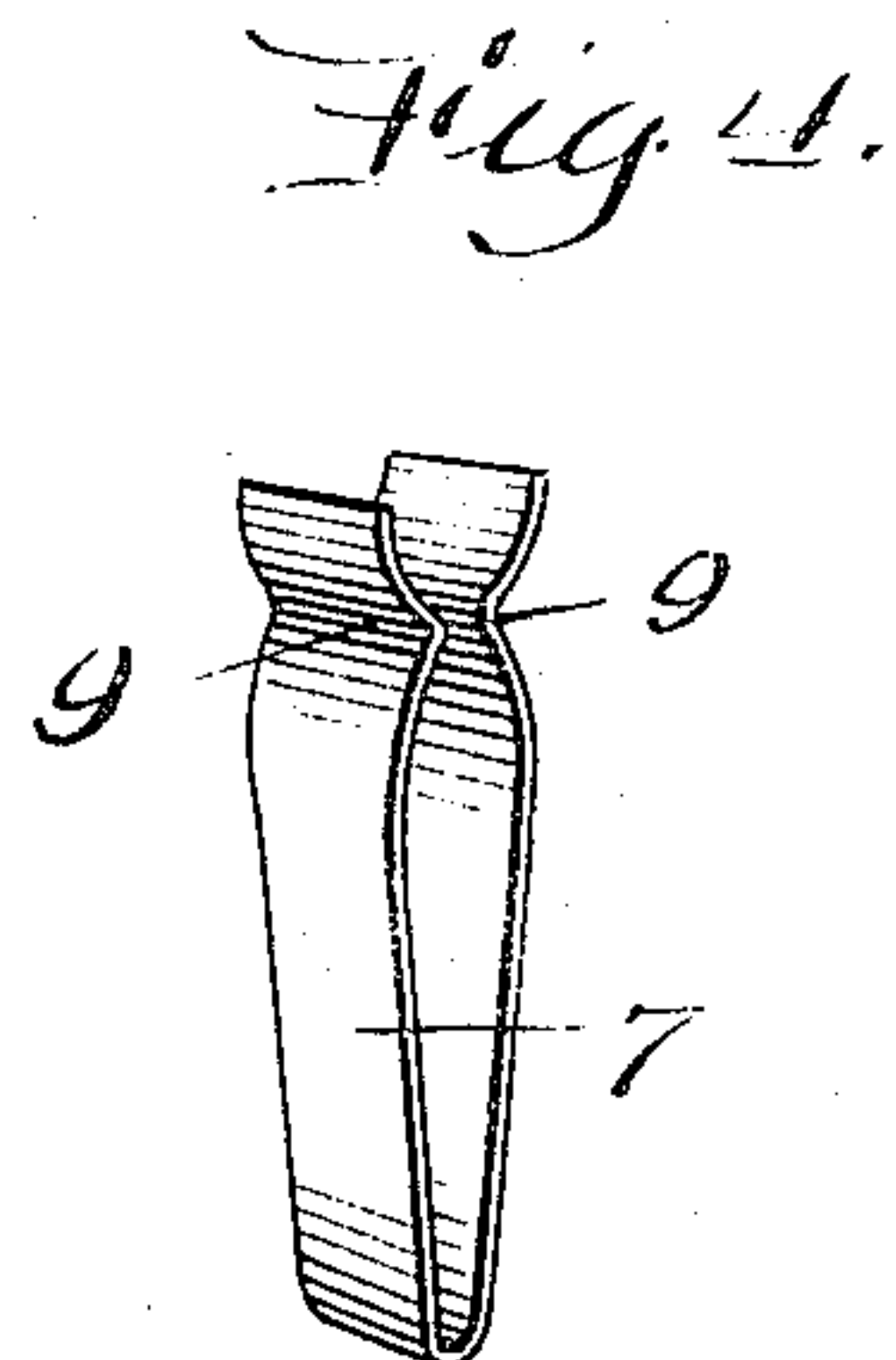


Fig. 4.

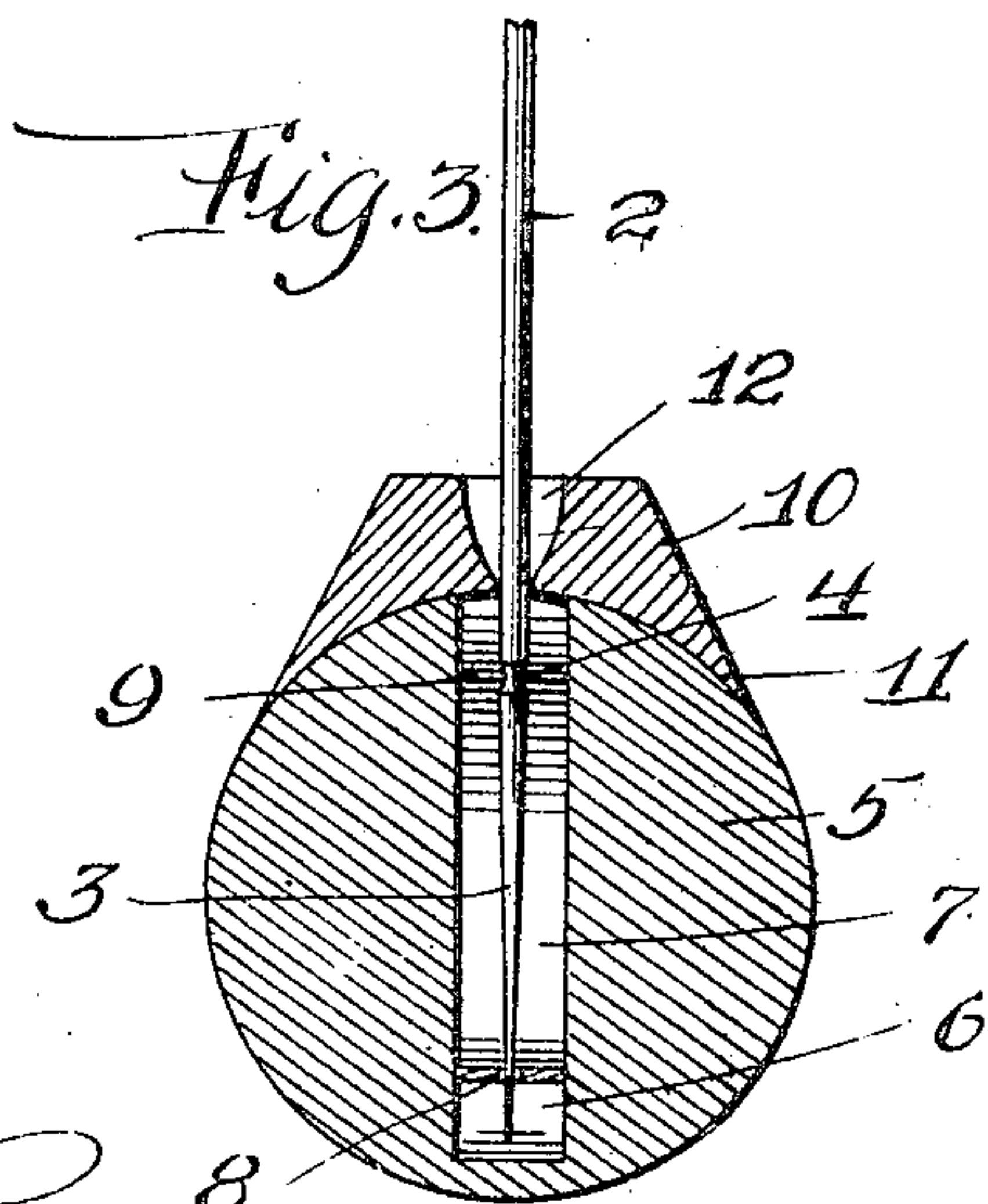


Fig. 3.

WITNESSES

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HAT-PIN-POINT PROTECTOR.

999,079.

Specification of Letters Patent. Patented July 25, 1911.

Application filed February 27, 1911. Serial No. 811,183.

To all whom it may concern:

Be it known that I, ANTON ALBERT WORZEN, a citizen of the United States of America, residing at South Brownsville, in the county of Fayette and State of Pennsylvania, have invented certain new and useful Improvements in Hat-Pin-Point Protectors, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a hat pin point protector, and the objects of the invention are to furnish a hat pin with a novel guard that will prevent persons from being injured by contacting with the pin, and the construction of a guard whereby it will prevent accidental displacement of the hat pin relatively to the hat.

Further objects of my invention are to provide a protector of the type described that can be easily and quickly placed in engagement with a hat pin, and to accomplish the above result by a device that is simple in construction, durable, neat in appearance and highly efficient for the purpose for which it is intended.

With the above and other objects in view the invention resides in a novel construction and arrangement of parts to be hereinafter specifically described and then claimed.

Reference will now be had to the drawing wherein like numerals of reference designate corresponding parts throughout the several views in which:—

Figure 1 is a side elevation of a hat pin provided with the device. Fig. 2 is an enlarged vertical cross sectional view of the device. Fig. 3 is a transverse sectional view of the device, and Fig. 4 is a perspective view of a detached spring adapted to form part of the device.

The reference numeral 1 denotes a pin having a suitable head 2 at one end thereof and the opposite end pointed, as at 3 and provided with a circumferentially arranged groove 4.

The protector or guard for the pointed end 3 of the pin comprises a spherical body 5 having a V-shaped recess 6 formed therein, said recess extending from one side of the

body in proximity to the other side thereof and in this recess is located a gripping member, comprising a V-shaped flat spring 7 having the lower end thereof provided with an opening 8 for the pointed end of the pin and the ends of said spring bent inwardly to provide oppositely disposed transverse ribs 9 adapted to engage in the groove 4 of the pin. The gripping member is of a less depth than the recess 6, thereby providing clearance for the point of the pin between the lower end of the gripping member and the bottom of the recess, and the walls of said recess are adapted to normally retain the ribs 9 contiguous to one another whereby when the pin is placed between the said ribs, they will be sprung apart until the groove 4 is reached when they will enter said groove and hold one end of the pin in the body 5.

Mounted upon the body 5 over the open end of the recess 6 is a frusto-conical shaped cap 10 having a bottom thereof recessed, as at 11 to conform to the periphery of the body 5. Centrally of the cap there is a tapering opening 12 adapted to guide the pin centrally of the recess 6, and a large end of the opening 12 permits of the protector or guard being easily placed upon the pointed end of the pin.

The body 5 and the cap 10 can be made of metal or any suitable material and suitably ornamented.

What I claim is:—

In a hat pin protector, the combination with a hat pin having the pointed end thereof provided with a circumferentially arranged groove, of a guard adapted to be detachably mounted upon the pointed end of said pin, said guard comprising a body having a V-shaped recess formed therein, a V-shaped flat spring mounted in said recess and of a less depth than said recess, the bottom of said spring having an opening formed therein for the passage of said pin, each of the arms of said spring bent inwardly at a point removed from its free end to provide a rib, said ribs being oppositely disposed and adapted to engage in the groove of said pin, and a cap mounted upon

said body over the open end of said recess
and having a tapering opening extending
in the same direction as said recess and of
less diameter throughout than the mouth of
5 the recess and adapted to guide said pin cen-
trally of said recess, substantially as de-
scribed.

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

ANTON ALBERT WORZEN.

Witnesses:

H. R. WARNOCK,
CHAS. SNIDER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
