

G. RENTZ.
PEN.

APPLICATION FILED JUNE 18, 1907.

Fig. 1.

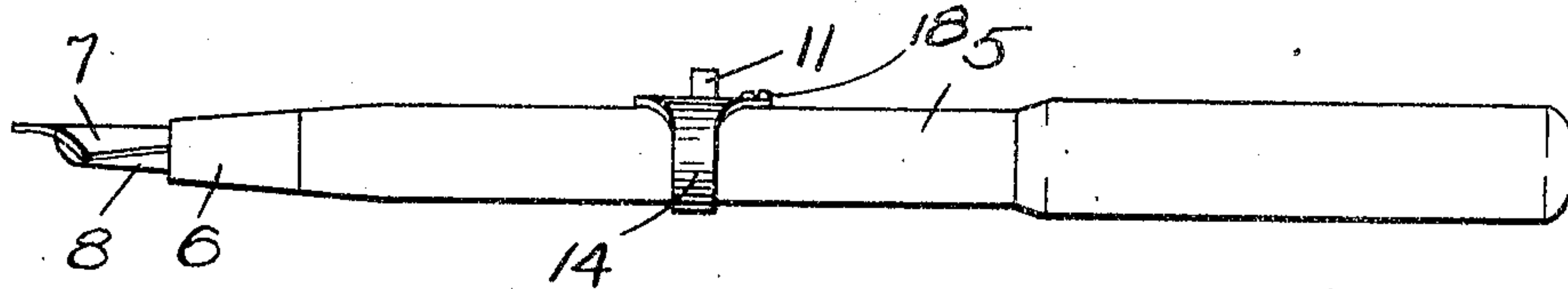


Fig. 2.

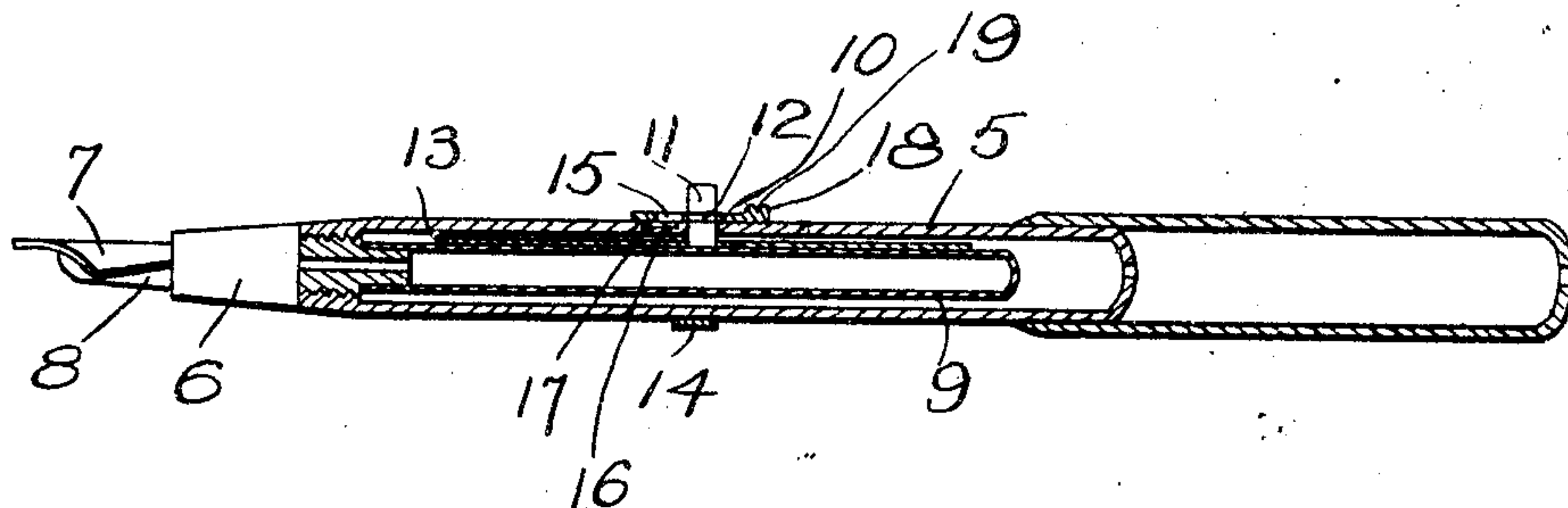


Fig. 3.

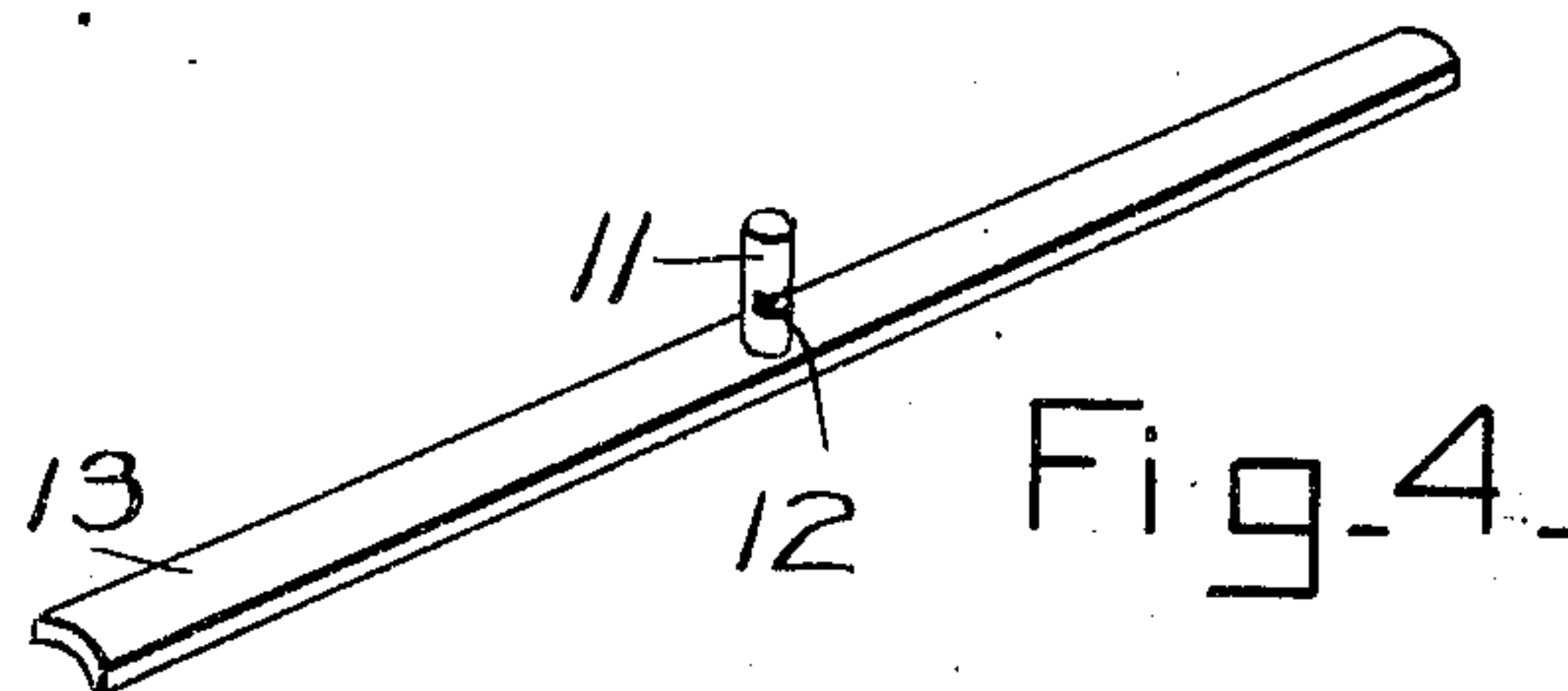
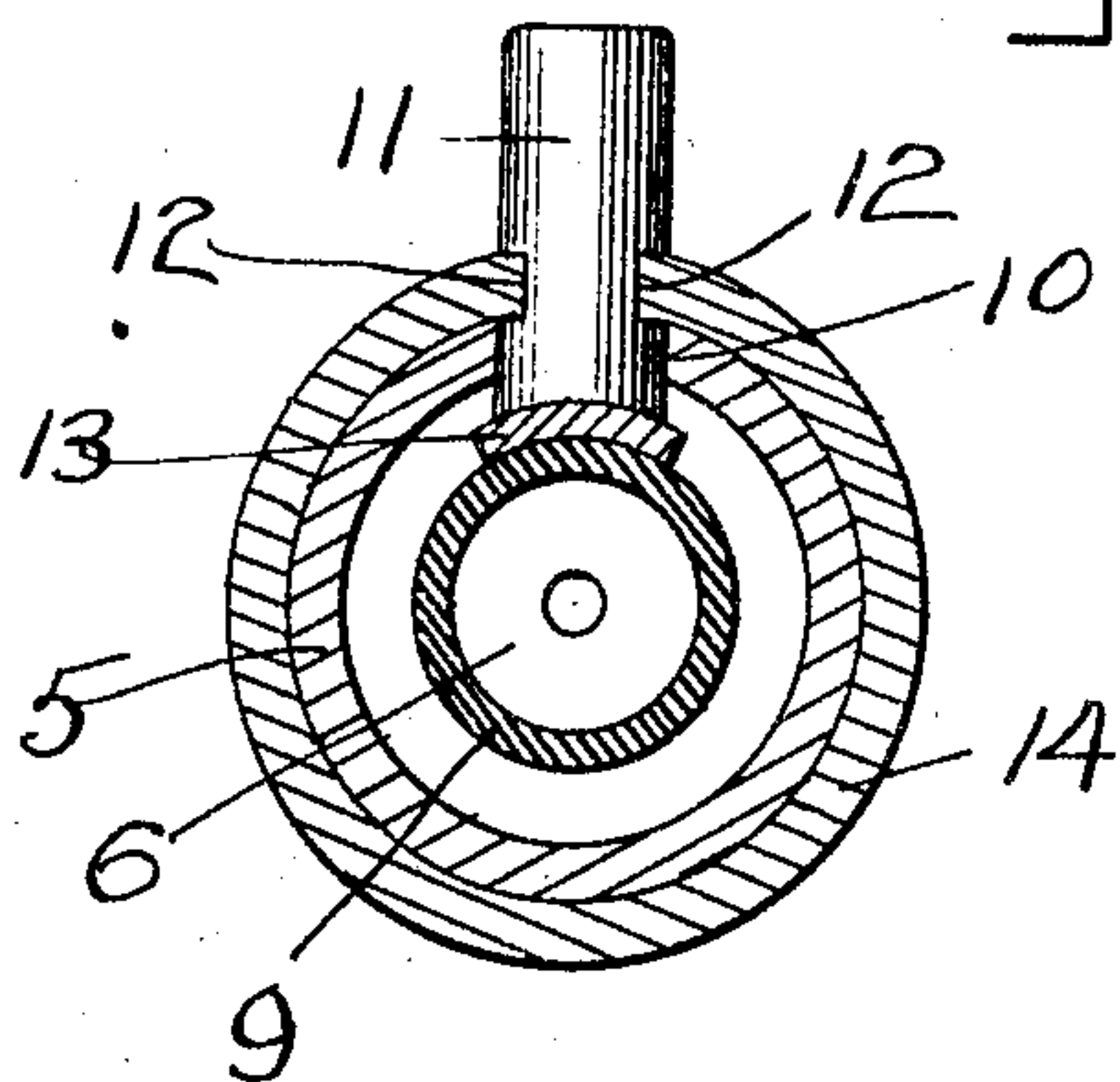
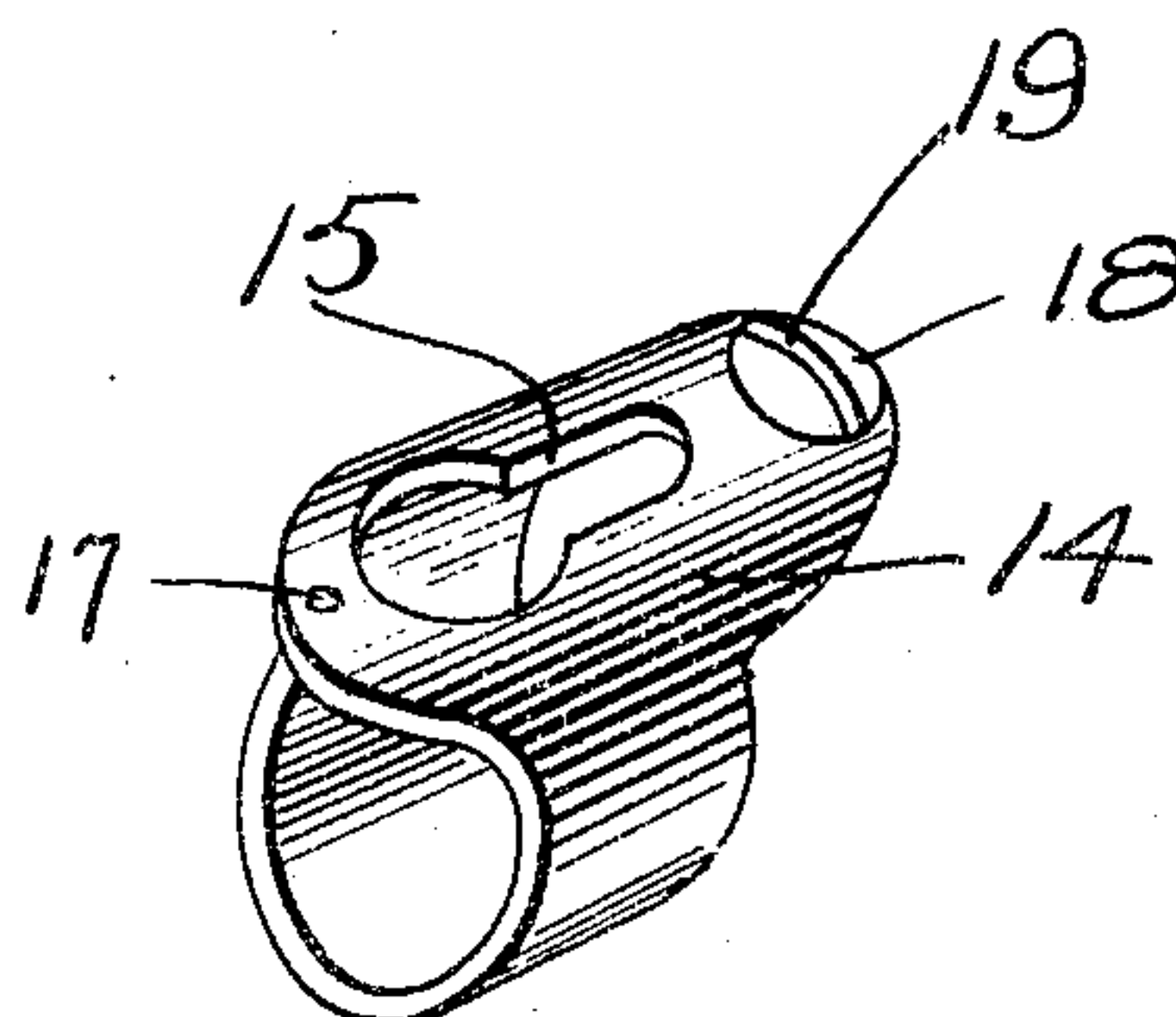


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

GEORGE RENTZ, OF WELLS, MINNESOTA.

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No. 896,576.

Specification of Letters Patent.

Patented Aug. 18, 1908.

Application filed June 18, 1907. Serial No. 379,571.

To all whom it may concern:

Be it known that I, GEORGE RENTZ, a citizen of the United States, residing at Wells, in the county of Faribault, State of Minnesota, have invented certain new and useful Improvements in Pens; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to self-filling pens and has for its object to provide in a pen of this class, a novel means for locking the presser bar which serves to compress the ink containing bag under normal conditions, the means being movable to permit operation of the said bar.

One of the primary objects of the invention is to provide a pen of this class which will be more durable than similar pens now on the market. The means for locking the presser bar, mentioned above, is embodied in a sleeve and this sleeve is guided for sliding movement upon the barrel of the pen and held against rotation thereon by means of a stud which is formed upon it and which projects into a groove formed in the said barrel. Heretofore it has been customary in constructions similar to this to fix in the hard rubber barrel of the pen a metallic pin and slot the slidable sleeve but such a construction is undesirable inasmuch as the barrel being of hard rubber and the pin of metal and both having different coefficients of expansion and contraction, the pin soon works loose and the pen is rendered useless.

In the accompanying drawings, Figure 1 is a view in elevation of a pen constructed in accordance with my invention, Fig. 2 is a vertical sectional view therethrough, Fig. 3 is a transverse sectional view taken in a plane adjacent the push pin upon the presser bar and the locking and releasing devices for the said pin, Fig. 4 is a detail perspective view of the presser bar, and, Fig. 5 is a similar view of the locking sleeve.

As shown in the drawings the pen consists of the usual hollow handle 5 into one end of which is screwed the pen section 6 carrying a pen point 7 and the feed tongue 8, all of these elements being of the usual construction. Engaged over the inner end of the pen section 6 is an elastic ink bag 9,

the said bag being normally contained within the handle 5. The handle 5 is perforated as at 10 for the engagement therethrough of a push pin 11 which is notched in opposite sides as at 12 and which carries a presser bar 13, the said bar being located within the handle 5 and being extended along the ink bag 9.

A tubular sleeve 14 is engaged upon the handle 5 of the pen and is axially movable thereon and is provided with a forwardly extending slot 15 which is of key-hole formation and has its reduced or minor portion of such width that when the sleeve is at the forward limit of its movement the edges of this slot will be engaged in the notches 12 of the push pin. However, when the sleeve is moved rearwardly, the said edges of the slot are caused to disengage from the notches and the pin then extends through the enlarged or major portion of the slot and may be pressed for a purpose to be presently described, it being understood that it is held against being pressed when in its former position. In order that the sleeve may be guided in its movement upon the handle, a groove 16 is formed in the handle in a line with the slot in the sleeve and a stud 17 which is carried by the sleeve projects into the groove and guides the sleeve as stated.

When it is desired to refill the pen, the sleeve is moved rearwardly upon the handle until the push pin 11 is received in the enlarged or major portion of the key-hole slot in the sleeve and the said push pin is then pressed to force the presser bar against the bag 9 and thereby compress the same after which the pen point is dipped into an ink-well and the push pin released, the elasticity of the bag serving to restore the pin and the presser bar to their normal position.

A head 18 is formed at the rear end of the sleeve and is provided with a transversely extending groove 19 in which the thumb or finger nail may be engaged for the purpose of moving the sleeve.

What is claimed, is—

A fountain pen comprising a hard rubber barrel, a flexible ink bag inclosed within the barrel, a presser bar engaging said ink bag, an outwardly extending push pin on said presser bar, a tubular metal sleeve axially slidable on the barrel and having a key-hole

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slot the narrowed portion of which is adapted
to engage the push pin and prevent actua-
tion thereof, the said barrel being provided
with a groove extending in a line with the
5 slot in the sleeve, and a metallic stud formed
integral with the metallic sleeve and extend-
ing into the groove.

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

GEORGE RENTZ.

Witnesses:

BYRON HUGHES,
FRED. HANSEN.