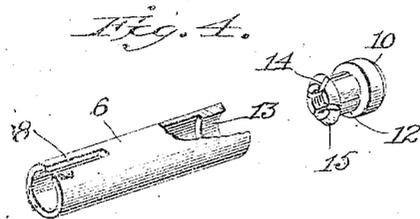
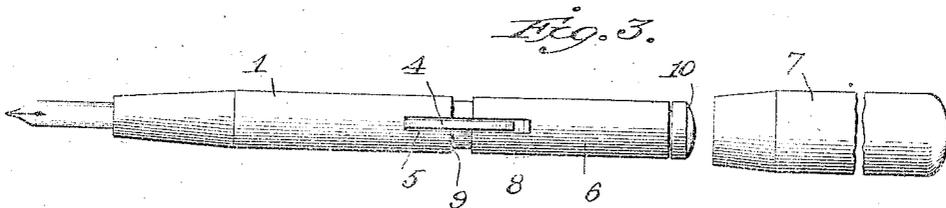
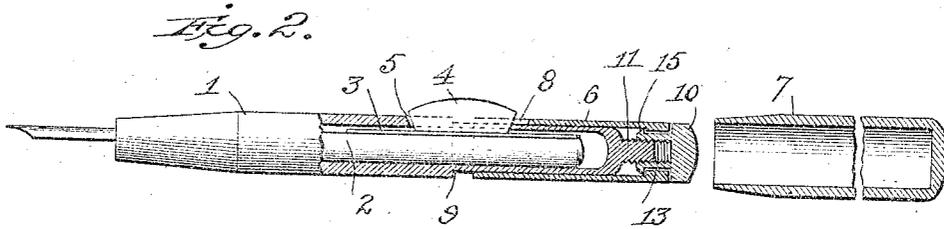
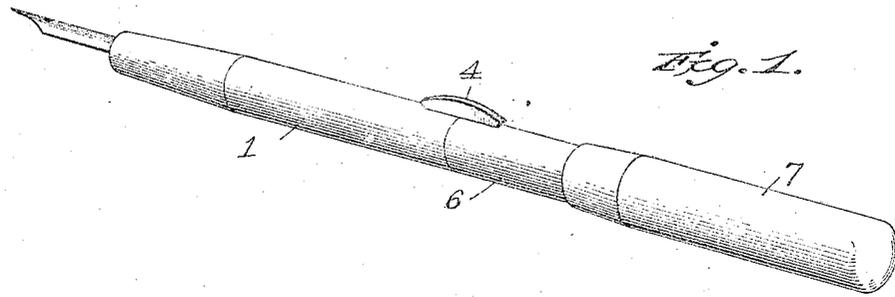


No. 836,180.

PATENTED NOV. 20, 1906.

R. CONKLIN.
SELF FILLING FOUNTAIN PEN.
APPLICATION FILED FEB. 23, 1906.



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UNITED STATES PATENT OFFICE.

ROY CONKLIN, OF TOLEDO, OHIO.

SELF-FILLING FOUNTAIN-PEN.

No. 836,180.

Specification of Letters Patent.

Patented Nov. 20, 1906.

Application filed February 23, 1906. Serial No. 302,441.

To all whom it may concern:

Be it known that I, ROY CONKLIN, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented new and useful Improvements in Self-Filling Fountain-Pens, of which the following is a specification.

This invention relates to fountain-pens; and its object is to improve the construction of that class of fountain-pens known as "self-filling"—such, for example, as the pen covered by my prior patent, No. 685,258, dated October 29, 1901. In that pen the ink-reservoir consists of a slender rubber bag inclosed in a rigid barrel or holder and communicating at one end with the pen-section. A presser-bar is laid along one side of the bag between it and the barrel, and a rib on the bar projects out through a slot in the barrel. A locking-ring passes through a slot in the rib.

The present invention consists in a new locking device for the presser-bar. It comprises a non-rotatable member slidable lengthwise on the barrel or holder and means for positively effecting the longitudinal movement of said sliding member to cause it to approach or recede from the rib on the presser-bar. By locating the slidable member close to one end of said rib it will when moved in one direction clamp the rib tightly between its adjacent edge and the opposite end of the slot in the barrel through which the rib projects. When the movable member is slid in the opposite direction, it will release the rib and leave the presser-bar free to be pushed in to collapse the rubber bag or ink-reservoir.

In the accompanying drawings, Figure 1 is a perspective view of a pen embodying my invention. Fig. 2 is a side elevation of the same, partly in longitudinal section. Fig. 3 is a top plan view, and Fig. 4 is a perspective view of the slidable member and the nut for operating it.

The hollow handle or barrel 1 is of any suitable rigid material, preferably hard rubber. It incloses the flexible bag or ink-reservoir 2, of elastic rubber. The presser-bar 3 lies along one side of the reservoir and is provided with a projection or rib 4, which projects through a longitudinal slot 5 in the barrel. The ends of the rib are preferably slightly undercut, as shown. Adjacent to one end of the rib is the sliding locking member, which is preferably a sleeve 6 concentric

with and fitting the outside of the barrel, which is preferably reduced in diameter for a portion of its length to receive the sleeve without unduly enlarging the diameter of the pen. The outer diameter of the sleeve is the same as that of the barrel forward of the rib, so that the cap 7 will fit equally well on each end of the penholder.

Whether made in the form of a sleeve or not, the slidable locking member is provided with a longitudinal slot 8, so that it can straddle the rib 4 and be guided thereby in its longitudinal movement on the barrel. It will be seen that this slot is of such a length that when the locking member is slid toward the rib the end of the slot will engage with the end of the rib before the end of the sliding member strikes the shoulder 9, where the reduced portion of the barrel terminates, and will thereby force the rib against the end of the slot 5 in the barrel, so that the rib cannot then be pushed in to collapse the ink-reservoir. The undercutting of the ends of the rib insures a firm locking of these parts, which will be maintained until the sliding locking member is retracted.

Suitable means for effecting a positive movement of the sliding member are provided. The preferred device consists of a nut 10, meshing with screw-threads on a reduced portion of the barrel, such as the neck 11, projecting centrally from the end of the barrel. The nut is suitably engaged with the sliding member, preferably by grooving the nut at 12 to receive a projection on the said member. In the case of the sleeve shown this projection takes the shape of an internal flange 13, and in order to enable the nut to be engaged therewith it is provided with lengthwise slits 14, thereby forming sections which can be sprung together and forced into the sleeve until the flange engages the groove and the sections spring outwardly, so that the flange 13 is engaged by the flange 15 at the end of the sections. The nut is thus free to rotate in the sleeve with no danger of separation therefrom, and as the nut travels back and forth on the screw-threaded portion of the barrel it causes the sleeve to move lengthwise on the barrel without rotating, merely sliding to and fro into and out of engagement with the rib 4.

Having thus described my invention, what I claim is—

1. A fountain-pen, provided with a hollow

handle, an inclosed flexible ink-bag, a presser-bar engaging said ink-bag, an outwardly-extending projection on said presser-bar, and a tubular sleeve axially slidable on the handle and having a forward slot adapted to engage with said projection, substantially as specified.

2. In a self-filling fountain-pen, the combination with a barrel having a slot, of an elastic ink-reservoir in said barrel, a presser-bar having a rib projecting through said slot, and a sliding non-rotatable member for forcing said rib lengthwise against one end of said slot, and means for positively moving said sliding member.

3. In a self-filling fountain-pen, the combination with a barrel having a slot, of an elastic ink-reservoir in said barrel, a presser-bar having a rib projecting through said slot, and a sliding non-rotatable locking member having a longitudinal slot engaging with said rib, and means for positively moving said sliding member.

4. In a self-filling fountain-pen, the combination with a barrel having a slot, of an elastic ink-reservoir in said barrel, a presser-bar having a rib projecting through said slot, a sliding non-rotatable member engaging with said rib, and means for positively moving said sliding member and for preventing it from being accidentally disengaged from said rib.

5. In a self-filling fountain-pen, the combination with a barrel having a slot, of an elastic ink-reservoir in said barrel, a presser-bar having a rib projecting through said slot, a sliding non-rotatable locking member con-

centric with said barrel, and means for operating said member.

6. In a self-filling fountain-pen, the combination with a barrel having a slot, of an elastic ink-reservoir in said barrel, a presser-bar provided with a rib projecting through said slot, a non-rotatable sleeve on said barrel adapted to engage with one end of said rib, and a screw-threaded device for operating said sleeve.

7. In a self-filling fountain-pen, the combination with a barrel having a slot, of an elastic ink-reservoir in said barrel, a presser-bar provided with a rib projecting through said slot, a non-rotatable sleeve on said barrel adapted to engage with one end of said rib, and a nut engaging with said sleeve and meshing with screw-threads on said barrel.

8. In a self-filling fountain-pen, provided with a presser-bar having a rib, the combination with a non-rotatable locking-sleeve having an internal flange, of a nut provided with a groove in which said flange engages.

9. In a self-filling fountain-pen provided with a presser-bar having a rib, the combination with a non-rotatable locking-sleeve having an internal flange, of a nut provided with a groove in which said flange engages, said nut being slit lengthwise to enable it to be inserted in said sleeve.

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

ROY CONKLIN.

Witnesses:

H. T. GREEN.

W. J. WRIGHT.