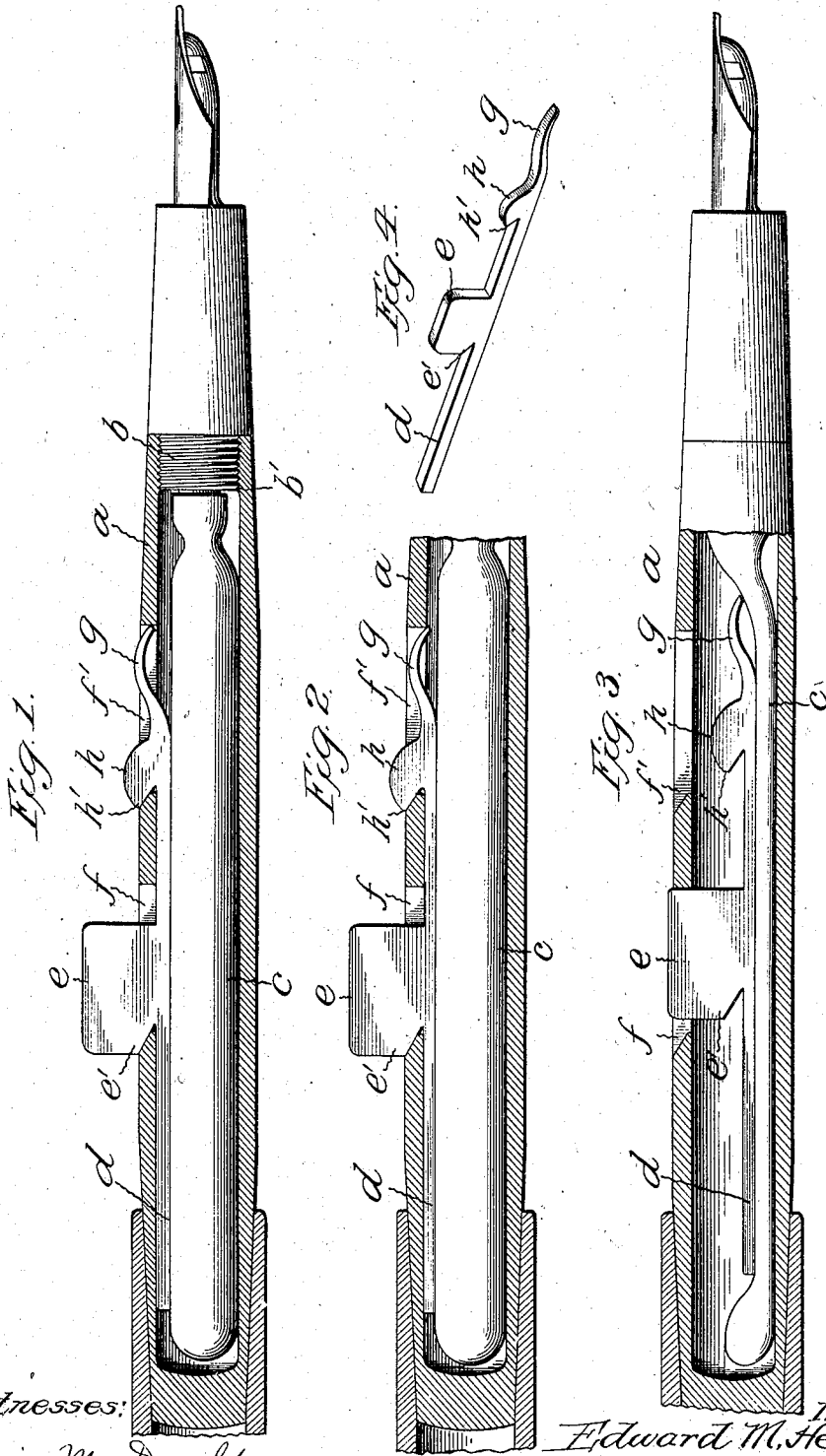


E. M. HEYLMAN.
SELF FILLING FOUNTAIN PEN.
APPLICATION FILED JAN. 23, 1905.



Witnesses:
 Irving Mac Donald.
 Alfred H. Moore

Inventor:
 Edward M. Heylman,
 by Barton Tanner
 Att'ys.

UNITED STATES PATENT OFFICE.

EDWARD M. HEYLMAN, OF JANESVILLE, WISCONSIN, ASSIGNOR TO THE PARKER PEN COMPANY, OF JANESVILLE, WISCONSIN, A CORPORATION OF WISCONSIN.

SELF-FILLING FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 791,466, dated June 6, 1905.

Application filed January 23, 1905. Serial No. 242,210.

To all whom it may concern:

Be it known that I, EDWARD M. HEYLMAN, a citizen of the United States, residing at Janesville, in the county of Rock and State of Wisconsin, have invented a certain new and useful Improvement in Self-Filling Fountain-Pens, of which the following is a full, clear, concise, and exact description.

My invention relates to a self-filling fountain-pen; and its object is to provide improved and simple means for locking the presser to prevent compression of the flexible ink-reservoir except when it is desired to refill the pen.

The fountain-pen of my invention is of the type wherein an elastic ink-reservoir formed of a slender rubber bag is inclosed within the barrel or holder of the pen and communicates at its mouth with the pen section or nozzle. This elastic reservoir is arranged to be compressed by a presser-bar contained within the barrel, said presser-bar being provided with a rib or handle projecting through a slot in the barrel.

My invention is directed toward means for locking the projecting rib to prevent it from being accidentally depressed. I provide the said-rib with a shoulder adapted normally to engage the barrel to lock the rib against depression. The rib is movable in said slot to bring said shoulder into a position registering with said slot to permit the depression of the rib, and a spring locking-tongue is provided, preferably formed upon the end of the presser-bar to normally engage the barrel and prevent such movement of said rib. The tongue is provided with a projecting portion which may be moved to disengage the locking-tongue when it is desired to fill the pen.

I will describe my invention by reference to the accompanying drawings, which illustrate the preferred embodiment thereof, reserving for the appended claims a statement of the particular parts, improvements, or combinations which I deem novel with me.

Figure 1 is a longitudinal sectional view, on an enlarged scale, of a fountain-pen embodying my invention. Fig. 2 is a similar view

showing the spring locking-tongue disengaged from the barrel to permit the depression of the presser-bar. Fig. 3 is a similar view with the presser-bar depressed, and Fig. 4 is a detail view of the presser-bar and the rib and spring-tongue carried thereby.

The same letters of reference indicate like parts wherever shown.

The self-filling fountain-pen shown in the drawings comprises a barrel *a*, into the end of which a nozzle *b* is fitted, said nozzle carrying the pen and feeder at its forward end. The rear portion of the nozzle carries an ink-reservoir *c*, which may be a bag of soft rubber, the mouth of which is stretched over a tubular projection *b'* of the nozzle. A presser-bar *d* is provided inside the barrel, lying against the elastic ink-reservoir. Said presser-bar is provided with a rib or handle *e*, which projects through a slot *f* in the side of the barrel. By pressing this projecting rib the presser-bar can be forced against the reservoir to compress the same against the inside of the barrel. In order to prevent the presser-bar from being accidentally pushed in while the pen is in use, I provide the rib *e* with a shoulder or undercut portion *e'*, adapted to engage the barrel at the end of the slot *f* to lock the rib against depression. The rib *e* is movable longitudinally within the slot *f* to bring said shoulder into a position registering with said slot *f* to permit the depression of the rib, and in order to prevent such movement except when desired I provide a spring locking-tongue *g*, adapted to engage the barrel to normally prevent movement of the rib *e*. As shown, the spring locking-tongue is formed by the end of the presser-bar and normally engages the end of a slot *f'* in the barrel to hold the presser-bar and rib against longitudinal movement, and the presser-bar may also carry a supplemental rib *h*, projecting through the slot *f'* and having a shoulder or undercut portion *h'*, adapted to engage the barrel at the rear end of said slot *f'* to assist in locking the presser-bar against movement. The spring locking-tongue is bowed out be-

yond the outer surface of the barrel, so that it may be conveniently depressed and disengaged from the barrel.

When it is desired to fill the pen, it is simply necessary to depress the spring locking-tongue and thereby disengage the same from the barrel, whereupon the rib *e* may be moved longitudinally to disengage said rib and also the supplemental rib *h* from the barrel and cause the shoulders *e'* *h'* thereof to register with the slots *f* *f'*, respectively. The rib *e* may then be depressed to operate the presser-bar *d* and fill the pen.

It will be understood that numerous modifications may be made from the structure shown without departing from the spirit of my invention, and I accordingly do not desire to be understood as limiting myself to the precise structure shown and described.

I claim—

1. In a self-filling fountain-pen, the combination with a barrel having a slot, of an elastic ink-reservoir, a presser-bar having a rib projecting through said slot, said rib having a projecting shoulder adapted to engage the barrel to lock said rib against depression, said rib being movable in said slot to bring said shoulder into a position registering with said slot to permit depression of the rib, and a spring locking-tongue normally engaging said barrel to prevent the movement of said rib.

2. In a self-filling fountain-pen, the combination with a barrel having a slot, of an elastic ink-reservoir, a presser-bar having a rib projecting through said slot, said rib having a portion adapted to engage the barrel at the end of said slot to lock said rib against depression, said rib being longitudinally movable in said slot to bring said locking portion into a position registering with said slot to permit depression of the rib, and a spring locking-tongue carried by said presser-bar and normally engaging the barrel to hold said rib in its locked position against longitudinal

movement, said tongue having a portion projecting outside the barrel and adapted to be pressed to disengage said tongue from the barrel and permit the rib to be moved into a free position.

3. In a self-filling fountain-pen, the combination with a barrel having a slot, of an elastic ink-reservoir, a presser-bar having a rib projecting through the slot, said rib having an undercut end adapted to be held against depression by the end of the slot, and a spring locking-tongue carried by said presser-bar, normally engaging the barrel to hold the undercut end of the rib against the slot to lock said rib against movement, said tongue having a projecting portion adapted to be pressed to disengage said tongue from the barrel and permit the rib to be moved into a free position, substantially as set forth.

4. In a self-filling fountain-pen, the combination with a barrel having two slots, and a flexible ink-reservoir within the barrel, of a presser-bar resting upon said ink-reservoir and having a rib projecting through one of said slots, said rib having an undercut end locking against the end of the slot, a spring locking-tongue carried by the end of said presser-bar and normally engaging the end of the other slot, to hold the presser-bar and rib against longitudinal movement, said presser-bar having a supplementary rib, also having an undercut end normally locking in the rear end of the last-mentioned slot, said tongue having a projecting portion adapted to be pressed to disengage the locking-tongue and permit longitudinal movement and depression of the presser-bar.

In witness whereof I hereunto subscribe my name this 20th day of January, A. D. 1905.

EDWARD M. HEYLMAN.

Witnesses:

GEO. S. PARKER,
ESTHER NELSON.