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A. REICHENBACH

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FOUNTAIN PEN HOLDER

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Fig. 1.

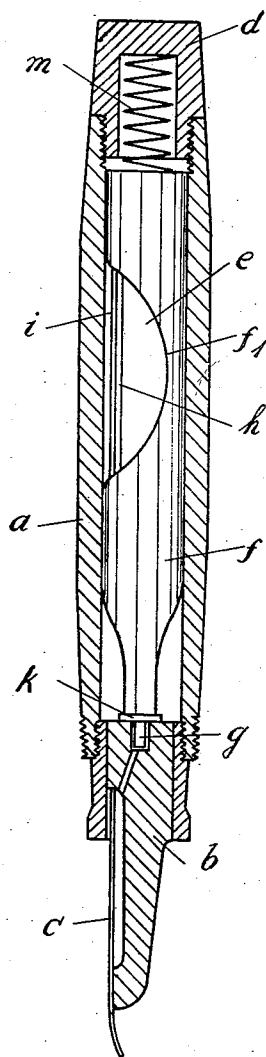


Fig. 2.

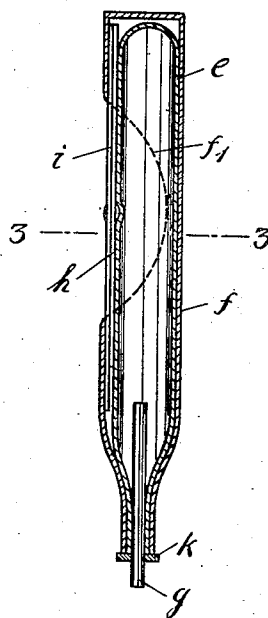
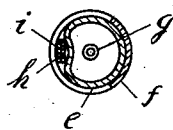


Fig. 3.



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FOUNTAIN PENHOLDER

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It has become known to arrange as ink reservoir for fountain pens a rubber bag in the hollow handle, so that this rubber bag can be compressed by means of a suitable device and thereby filled with ink, when the pen is being dipped into an ink pot.

Such a fountain pen presents the inconvenience, that it is necessary to dip the pen into the inkstand to fill the same, that, if the pen is not dipped deeply enough into the ink, air is sucked into the bag, and this bag is incompletely filled. The rubber bag becomes leaky and after a certain time the fountain pen must be repaired.

It has been proposed, to arrange a reservoir of glass interchangeably in the hollow handle of the fountain pen holder. Such ink reservoirs are sold filled but cannot be refilled and when the ink in the reservoir has been consumed, a new reservoir has to be inserted. As such reservoirs are not sold everywhere, it is sometimes impossible to procure such a reservoir without loss of time, so that the fountain pen can then not be used for some time. This invention has for its object to obviate these inconveniences.

The novelty consists in that the rubber bag with outflow tube is arranged in a sleeve which can be removed from the penholder in order that the rubber bag may be compressed and filled.

An embodiment of the invention is illustrated in the accompanying drawings in which:

Fig. 1 shows the fountain pen in longitudinal section, the ink reservoir inserted.

Fig. 2 shows the ink reservoir in longitudinal section.

Fig. 3 is a cross section on line 3—3 of Fig. 2.

The fountain pen holder consists of a casing *a*, an ink duct piece *b* in the front end of the casing containing the nib *c*, and of a closing head *d* screwed into the rear end of the casing *a*.

An ink reservoir is interchangeably located in the casing *a*. This ink reservoir is composed of a rubber bag *e*, a metal sleeve *f*, an outflow tube *g*, and a pressure bar *h* with a spring *i*.

The metal sleeve *f* in which the rubber bag *e* is located is closed at the rear end and tapered at the front end. Between the outflow tube *g* and the tapered portion of the metal sleeve *f* the end of the rubber bag *e* is clamped, so that a good packing of this rubber bag and also a good seat for the outflow tube *g* are obtained. The metal sleeve *f* has a portion *f'* cut out, through which projects the rubber bag *e*. A bar *h* and a blade spring *i* are inserted between the rubber bag and the metal sleeve and extend along the cut out portion *f'*.

The front portion of the outflow tube *g*, which projects from the tapered end of the metal sleeve *f*, is accommodated in the ink duct piece *b* and tightly packed with the aid of a packing ring *k*. The metal sleeve *f* is pressed against the packing ring *k* through the action of a spiral spring *m* accommodated in the hollow closing head *d*.

If there is no ink left in the rubber bag, it is not necessary to interchange the rubber bag, but merely to fill the same. With this object in view the closing head *d* is unscrewed and the metal sleeve *f* removed from the casing. The rubber bag is then compressed on its entire length by means of the bar *h* and blade spring *i*, the latter being depressed with a finger. The open end of the outflow tube *g* is then dipped into the ink in an ink pot and the blade spring *i* and pressure bar *h* released so that the ink is sucked into the rubber bag *e*. The sleeve *f* with the rubber bag filled with ink is then re-inserted into the casing *a*.

I claim:—

1. A fountain penholder, comprising in combination with the casing, an ink duct piece in the front end of said casing, a closing head screwed into the rear end of said casing, a metal sleeve tapered at the front end removably mounted in said casing, a rubber bag in said metal sleeve, and an outflow tube in the open end of said rubber bag and in the tapered end of said metal sleeve.

2. A fountain penholder as specified in claim 1, in which the metal sleeve containing the rubber bag has a piece cut out on one

side so that the rubber bag is accessible to be compressed.

3. A fountain penholder as specified in claim 1, comprising in combination with the rubber bag and a metal sleeve containing this rubber bag and cut out on one side, a pressure bar extending between said rubber bag and said metal sleeve along said cut out piece of said metal sleeve, and a blade spring on said pressure bar.

4. A fountain penholder as specified in claim 1, in which the rubber bag is clamped between the wall of the tapered front end of the metal sleeve and the outflow tube.

In testimony whereof I affix my signature.
ALBERT REICHENBACH.

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