

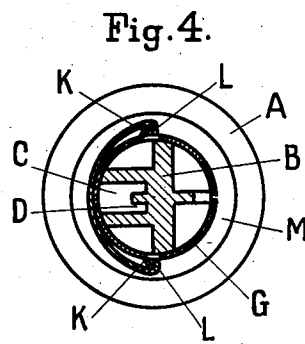
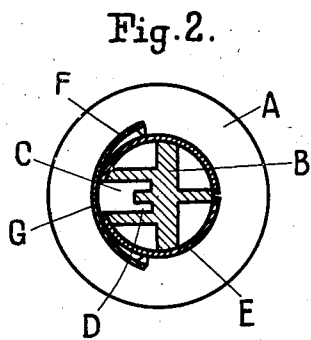
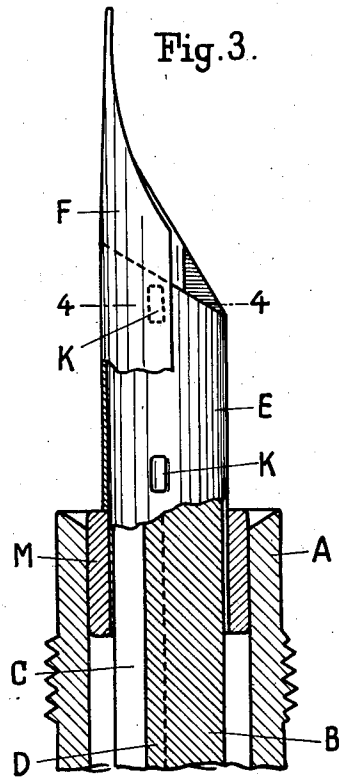
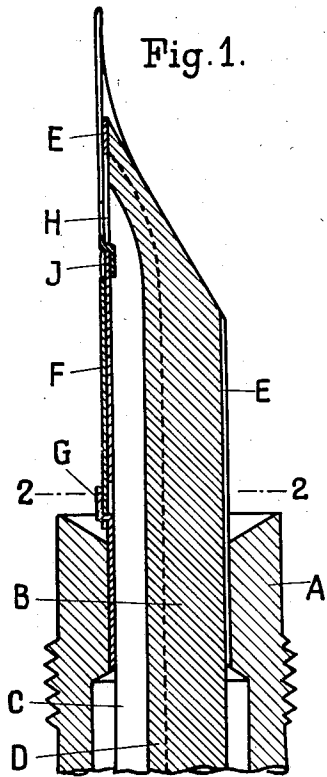
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RESERVOIR PEN

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# UNITED STATES PATENT OFFICE.

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## RESERVOIR PEN.

Application filed July 9, 1926, Serial No. 121,461, and in Germany July 13, 1925.

This invention relates to improved means for detachably securing the nib of a reservoir pen of the kind in which the nib is secured by engaging one or more projections or hooks carried by the feed-bar. In such reservoir pens it has hitherto been necessary to make the feed-bar relatively strong to support the nib-securing hooks and it is liable to rapid damage by repeated changing of the nib, if the feed-bar is made of vulcanite. Moreover, the longitudinal air channel in the feed-bar, which is normally covered by the nib, is exposed when the nib is removed and the ink is free to escape from the holder.

The above-mentioned drawbacks are overcome, according to this invention, by fitting a sleeve upon the outer end portion of the feed-bar so that it covers the air channel where the feed-bar projects from the holder almost up to the outer end of said channel, or, alternatively, the sleeve extends to the end of the feed-bar and is provided with an aperture for the entry of air to the air channel and for the escape of ink from the ink grooves in the air channel. This sleeve, which is split to increase its resilience, is preferably made of rustless metal and is provided with a device for detachably securing the nib thereto. In the case of reservoir pens having a retractible nib and feed-bar, the sleeve may be secured to the feed-bar by the ring which serves to seal the mouth of the holder, and in the case of reservoir pens having a non-retractible nib, the feed-bar and its sleeve may be secured together in the mouth of the holder.

The accompanying drawings illustrate two examples of my invention by way of explanation.

Fig. 1 is a longitudinal section through the end portion of a reservoir pen having a fixed feed-bar or non-retracting nib. Fig. 2 is a cross-section on the line 2-2 of Fig. 1.

Fig. 3 is a view similar to Fig. 1 of a reservoir pen having a retractible nib and feed-bar, and Fig. 4 is a cross-section thereof on the line 4-4.

On the drawings, A is the mouth of the holder or reservoir, B is the feed-bar, F the

nib and C the longitudinal air channel in the feed-bar, with capillary ink grooves D along the bottom of the air channel.

In Figs. 1 and 2, a sleeve E extends from the inner end of the mouth of the holder up to the outer end of the feed-bar B and has an opening H which coincides with the extremities of the air channel C and ink grooves D. Just outside the mouth of the holder A, the sleeve E is provided with a hook G which is bent out of the sleeve E to engage a corresponding aperture in the nib and secure it at this point. The nib is secured near its point by the engagement with the edge of the opening H of a hook J bent inwardly out of the nib.

In Figs. 3 and 4, the holder A is sealed by a packing ring M, preferably of vulcanite which secures the sleeve E to the retractible feed-bar B. In this case the sleeve E covers the air channel C almost up to its outer end. Lugs K bent out of the sleeve E at both sides thereof serve to secure the nib, which is turned-in at the edges L to engage the lugs K.

### Claims:

1. A reservoir pen comprising a holder, a feed-bar adapted to project from the holder and having longitudinal air and ink passages therein, a sleeve surrounding the outer end portion of the feed-bar and covering said channels where they project from the holder except at their extreme outer ends, and a device on the sleeve for detachably securing a pen nib.

2. A reservoir pen comprising a holder, a feed-bar adapted to project from the holder and having longitudinal air and ink passages therein, a split sleeve surrounding the outer end of said feed-bar without obstructing the extreme outer ends of said channels, a nib, and means for detachably securing the nib to the sleeve.

3. A reservoir pen comprising a holder, a feed-bar adapted to project from the holder and having longitudinal air and ink passages therein, a split sleeve surrounding the outer end of said feed-bar and having an aperture coinciding with the outer extremities of said channels, a nib, and means for detachably securing the nib to the sleeve.

4. A reservoir pen as specified in claim 1.

in which the nib securing device comprises a projection on the sleeve adapted to interlock with an aperture in the nib.

5 5. A reservoir pen comprising a holder, a feed-bar adapted to project from the holder and having longitudinal air and ink passages therein, a split sleeve surrounding the outer end of said feed-bar and having an aperture coinciding with the outer ex-

10 tremities of said channels, a nib, a hook projecting inwardly from the nib for interlocking with the aperture in the sleeve, and a hook projecting outwardly from the sleeve for interlocking with an aperture in the rear part of the nib. 15

The foregoing specification signed at Berlin this 18th day of June, 1926.

THEODOR KOVÁCS.