

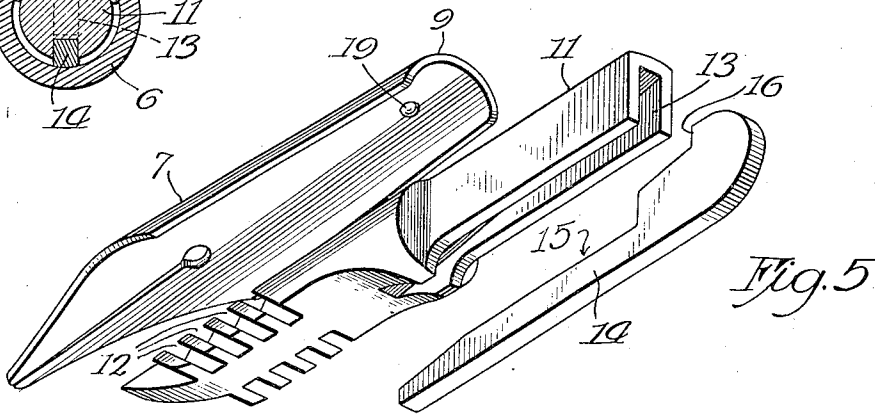
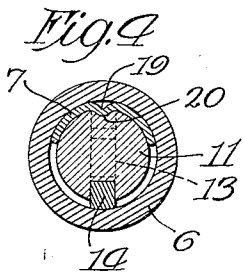
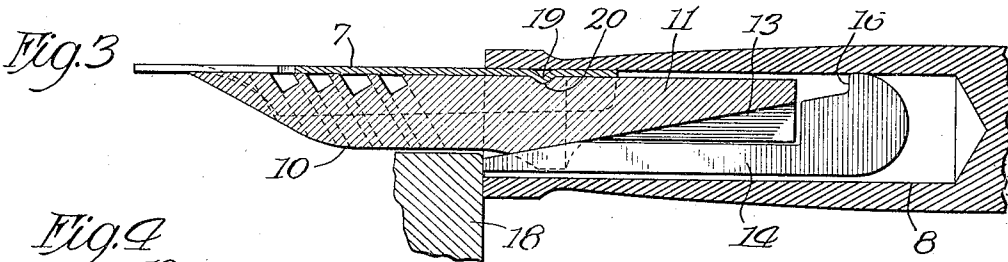
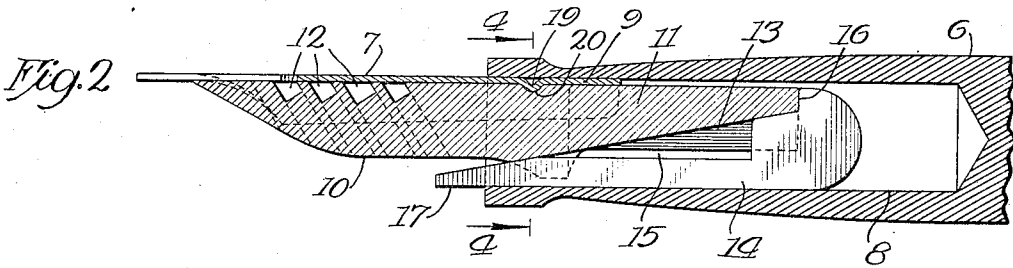
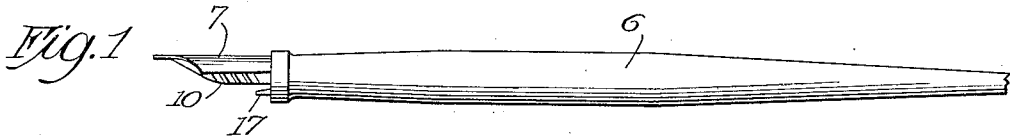
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G. J. SENGBUSCH

1,915,338

WRITING PEN

Filed Nov. 11, 1932



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UNITED STATES PATENT OFFICE

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WRITING PEN

Application filed November 11, 1932. Serial No. 642,163.

This invention relates to writing pens and has particular reference to means for removably securing a pen point in a pen holder. The invention is herein disclosed in a form of pen provided with means for holding a limited quantity of ink, such a pen being more fully disclosed in my Patent No. 1,767,189, granted June 24, 1930.

The objects of the invention are to provide improved means for removably securing a pen point in place in a pen holder and to provide such means which will be simple, durable and highly effective for the purpose indicated while at the same time facilitating removal of the pen point even though the pen is bound to the pen holder by corrosion and dried ink, which sometimes forms a strong seal tending to prevent the removal of the pen point.

Other objects and advantages of the invention will be understood by reference to the following specification and accompanying drawing, in which a writing pen is illustrated as embodying a preferred form of the invention.

In the drawing:

Fig. 1 is an elevation.

Fig. 2 is a longitudinal sectional view through the pen point end of the pen holder.

Fig. 3 is a section similar to Fig. 2, but showing certain parts in an adjusted position for facilitating removal of the pen point.

Fig. 4 is a section on the line 4—4 of Fig. 2, and

Fig. 5 is a perspective of certain component parts shown in separated relation to each other.

Referring now to the drawing, the pen shown in Fig. 1 includes a pen holder 6 of more or less conventional shape and a pen point 7 mounted in the end of the holder. The pen holder 6 is provided with a hollow end formed by a recess 8 therein and the pen point 7 has its rear end portion 9 inserted into the hollow end of the holder. A feed bar 10 has a stem portion 11 positioned under the rear end 9 of the pen point and said feed bar end extends a considerable distance beyond the pen point end into the hollow 8.

The front end of the feed bar 10 is pro-

vided with a series of angularly disposed slots 12 which are adapted to hold a quantity of ink, as more fully explained in my said patent. Pens of this type, when not in use, are usually inserted in a socket which is designed to cooperate with the end of the pen holder to form a substantially air-tight enclosure for the pen point and ink-holding feed bar. In some instances there is a tendency for the pen point and feed bar to become bonded to the pen holder due to corrosion or drying of ink.

The inner end portion 11 of the feed bar is provided on its bottom side with a longitudinally extending slot 13 which is of gradually increased depth from its outer or forward end to its inner or rear end.

A wedge member 14, which tapers outwardly as shown, is positioned in the slot 13 so as to be adjustable longitudinally of the bar portion 11. The wedge is provided with a recess 15 intermediate its length in the edge which engages the inclined bottom of the slot 13. For initially positioning the wedge with respect to the bar 11, the wedge is provided with an end abutment 16 which is adapted to engage the inner end of the bar 11, as clearly shown in Fig. 2. The forward end of the wedge projects outwardly, as indicated at 17, beyond the front end of the pen holder.

By reference to Fig. 2, it will be seen that the arrangement is such that, when the bar portion 11 is assembled in operative relation with the pen point and the wedge member 14 is similarly assembled with the bar portion 11, the assembled parts may be inserted into the hollow end of the pen holder until the parts are tightly wedged in operative position. To release the pen point, the wedge 14 may be adjusted inwardly by pressing the forward end thereof against any convenient object, such as indicated at 18 in Fig. 3. By this means the wedge is adjusted to such a position that the inner end portion of the bar 11 is freed from the wide portion of the wedge so that it may be rocked in the wedge recess 15. When the bar is so freed, but little effort is required to rock the bar and pen point to thereby break any seal or bond

which tends to prevent removal of the pen point. For facilitating proper assembling of the pen point with the feed bar, the pen point is provided with an indentation 19
5 which is adapted to interlock with a recess 20 in the top of the feed bar.

The above described structure is particularly desirable for removably mounting a stainless steel pen point in a pen holder in
10 connection with a feed bar such as above described, and the feed bar is preferably made of hard rubber or other suitable material which will resist corrosion by ink acids. The wedge 14 is also preferably made of
15 stainless steel or other suitable metal which resists corrosion by ink.

Changes in the described structure may be made without departing from the spirit of the invention, the scope of which should be
20 determined by reference to the following claims, the same being construed as broadly as possible consistent with the state of the art.

I claim as my invention:

25 1. In a pen of the class described, the combination of a pen holder having a hollow end, a pen point, a bar adapted to fit under the rearward portion of the pen point to form a pen point shank adapted to be inserted in
30 the hollow end of said holder, and an outwardly tapering wedge for locking said pen point shank in operative position in the hollow end of said pen holder.

35 2. In a pen of the class described, the combination of a pen holder having a hollow end, a pen point, a bar adapted to fit under the rearward portion of the pen point to form a pen point shank adapted to be inserted in
40 the hollow end of said holder, and an outwardly tapering wedge for locking said pen point shank in operative position in the hollow end of said pen holder, said wedge being mounted in said feed bar so as to be ad-
45 justable inwardly thereof to release the pen point shank.

50 3. In a pen of the class described, the combination of a pen holder having a hollow end, a pen point, a bar adapted to fit under the rearward portion of the pen point to form a pen point shank adapted to be inserted in
55 the hollow end of said holder, and an outwardly tapering wedge for locking said pen point shank in operative position in the hollow end of said pen holder, said wedge being mounted in said feed bar so as to be
adjustable inwardly thereof and being provided with a recess for permitting the shank to be rocked laterally in said hollow end to loosen the same.

60 4. In a pen of the class described, the combination of a pen holder having a hollow end, a pen point, a bar adapted to fit under the rearward portion of the pen point to form a pen point shank adapted to be in-
65 serted in the hollow end of said holder, said

bar having a longitudinally extending recess in its bottom side, said recess being of gradually increasing depth from its outer end to its inner end, and an outwardly tapering wedge longitudinally slidably mounted
70 in said slot, said wedge being operative to clamp said shank in normal, fixed position in the pen holder, and adjustable inwardly to release said shank.

75 5. In a pen of the class described, the combination of a pen holder having a hollow end, a pen point, a bar adapted to fit under the rearward portion of the pen point to form a pen point shank adapted to be inserted in the hollow end of said holder, said bar hav-
80 ing a longitudinally extending recess in its bottom side, said recess being of gradually increasing depth from its outer end to its inner end, and an outwardly tapering wedge longitudinally slidably mounted in said slot
85 for locking the shank in the hollow end of the pen holder, said wedge having a recess intermediate its length in its slot bottom engaging edge and being adjustable in said slot from normal locking position to such
90 position as to permit the rear end of the shank to be rocked laterally within said hollow end to thereby free the pen point from the holder.

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