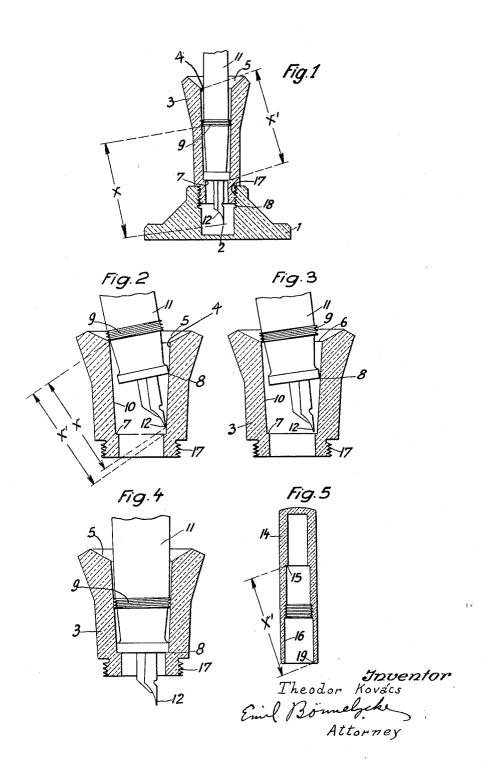
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FOUNTAIN PEN PROTECTOR
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FOUNTAIN PEN PROTECTOR

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tectors for pens of the kind in which the nib part of the interior of the protector which does not draw back into the holder, the pro- really supports or guides the pen, and does tector being either of the type which is screw- not apply to the outer edge of a flared or coun-

which is adapted for use as a pen stand.

With pens of the kind described it has hitherto been possible only by the exercise of great care, when placing the cap on the pen 10 or inserting the pen in the pen stand, to prevent the pen nib from catching on the shoulder provided for sealing the pen and consequently both the pen nib and the shoulder were liable to be damaged. In order to pre-15 vent injuries to the pen point upon such catching, often requirements, which should have been met for reasons of cleanliness, have been ignored. In some cases, the shoulder has been made conical to cause the pen nib to glide along it and although this reduces the liability of damage to the nib, it does not prevent damage to the shoulder.

The object of the invention is to eliminate any damage from contact of the pen nib with 25 the shoulder without changing the proper flat form of said shoulder. This is done first by making the diagonal distance, from one side of the edge of the bore of the protector to the opposite side of the shoulder, equal to or no longer than the diagonal distance from the point of the pen to the opposite side of the front edge of the screw-thread provided on the pen barrel to engage the screw-thread on the cap, and second, by making the internal longitudinal section of the protector of such shape and size, in relation to the transverse dimensions of the pen and nib, that by laying the outer edge of the neck of the pen and the front edge of the screw-thread against the 40 wall of the bore of the protector, the pen point will pass the internal shoulder without touching it. This requires the distance from the axis of the protector to the nib point to be smaller than the inner radius of the shoulder, 45 if the pen touches the inside of the protector at opposite sides with the outer edge of its thread, the nib point being at this time with-

50 "edge of the bore of the protector" as used in

This invention relates to fountain pen pro- the present case, means the outer edge of that 5 threaded to screw on to the pen or of the type tersunk portion which is sometimes provided 55 at the outer end of the protector, as in the case of pen stands, for guiding the pen into the protector.

In order that the invention may be more clearly understood, reference is hereinafter 60 made to the accompanying diagrammatic drawings whereon

Figure 1 illustrates a fountain pen stand according to the invention, in vertical sec-

Figs. 2 and 3 show the pen protector in vertical section, removed from the pen stand base and with the pen in different positions during insertion.

Fig. 4 similarly shows the pen protector 70 in vertical section, removed from the pen stand base, but with the pen fully in position in the protector.

The scale of Figs. 2-4 is distorted, the width scale being twice the length scale, in 75 order to accommodate the views better in the available space on the sheet.

Fig. 5 is a longitudinal section through a screw-on cap according to the invention.

Referring to Figs. 1-4 of the drawings, 3 80 designates the protector, 4 its central bore, 5 a countersunk enlargement of the bore, 7 a shoulder which seals the end of the pen, and 10 the wall of the central bore. 8 is the outer edge of the pen section or neck of the fountain 85 pen 11 and 9 is the screw-threaded portion of the pen for receiving a screw-on cap.

Fig. 2 shows the outer edge 8 of the neck of the pen in contact with the wall 10 of the central bore with the pen point 12 just above 99 the shoulder 7.

In Fig. 3 the screw-thread 9 lies against the outer edge 6 of the central bore. The pen has in consequence turned about the edge 8 and the pen point 12 is thus deflected inwards to 25 such an extent that, on pushing the pen furneck and with the front edge of its screw-thread, the nib point being at this time with-in the area of the shoulder. The expression freely past the shoulder 7. In Fig. 4 the fountain pen has reached the final position.

It will be seen from the drawings that, 100

with the construction of the central bore the front edge of its screw-thread, on its opposhown in Figs. 1-4, the smooth part of the pen barrel 11 beyond the screw-thread does not touch the wall of the central bore, so that it does not become scratched.

As shown in Fig. 1 the protector 3, which is open at its lower end, and has a screwthreaded portion 17 at said end, is detachably fixed in a recess 2 in the base 1 of a pen stand, 10 which has corresponding threads 18, being screwed into the recess 2 in the example shown, so that ink dripping from the pen can collect in the recess 2. To clean the protector 3 it is removed from the base 1, where-15 by the recess 2 becomes easily accessible.

in the cap.

tained by my invention by making the inner radius of the shoulder, when the outer the screw-thread 9 and by making the bore inib-point being at this time within the open-4 (or 16) of the protector to suit the various ing in the shoulder, transverse dimensions of the pen and the nib. 3. In combination with a pen having an

the shoulder.

ly to the identical forms disclosed and there the nib point is smaller than the inner radius fore, it will be understood that my inven- of the shoulder, when the outer edge of the 110

the accompanying claims.

I claim:

50 screw-thread on its pen section and an irre- within the opening in the shoulder. tractable nib, a protector having a central. In testimony whereof I affix my signature. bore adapted to receive said nib and the pensection of said pen; a shoulder in this bore adapted to bear against the front edge of the 55 pen section, the diagonal distance of the operative front edge of the protector from this shoulder being longer than the diagonal distance of the pen point from the front edgeof this screw-thread, the longitudinal section 60 of the protector being such in size and shape in relation to the transverse dimensions of said pen and said nib that the distance from the axis of the protector to the nib point is smaller than the inner radius of the shoulder;

65 when the outer edge of the pen section and

site side touch, the inner surface of the bore of the protector, the nib point being at this time within the opening in the shoulder.

2. In combination with a pen having a 70 screw-thread on its pen section and an irretractable nib, a protector having a central bore adapted to receive said nib and the pen section of said pen; a shoulder in this bore adapted to bear against the front edge of the neck of said pen; a female thread in said bore adapted to be screwed on said screwthread on the neck of the pen, the diagonal distance of the contacting front edge of the protector from this shoulder being longer 80 Fig. 5 shows a screw-on cap according than the diagonal distance of the pen point to the invention for a fountain pen in which from the front edge of this screw-thread, the the pen nib cannot be drawn back into the longitudinal section of the protector being holder. 14 is the body of the cap, 15 the in- such in size and shape in relation to the trans-, 20 ternal shoulder, and 16 the wall of the bore verse dimensions of said pen and said nib 85 that the distance from the axis of the pro-The above-mentioned advantages are ob- tector to the nib, point is smaller than the diagonal distance X' from the edge 7 (or 15) edge of the pen section and the front edge of 25 to 6 (or 19) equal to or greater than the its screw-thread on its opposite side touch the 90 diagonal distance X from the pen point to inner surface of the bore of the protector, the

From the above specification it is clear that protector engaging portion on its pen section 95 the invention comprises shaping the end of and an irretractable nib, a protector having the fountain pen in such manner with respect a central bore adapted to receive said nib and to the shape of the corresponding cap or pro- the pensection of said-pen; a shoulder in this tector which is to receive same that upon in- bore adapted to bear against the front edge. 35 serting the pen into said other means it will of the pen section, the diagonal distance of 100 be impossible for the point of the pen to come the operative front edge of the protector from into contact with the sealing shoulder, thus this shoulder being longer than the diagonal preventing injury to either the pen point or distance of the pen point from the front edge of said protector engaging portion, the longi-While I have disclosed the preferred em-tudinal section of the protector being such in 105 bodiments of my invention, it is obvious that size and shape in relation to the transverse some or all of the advantages of the inven-dimensions of said pen and said nib that the tion may be obtained without adhering strict-distance from the axis of the protector to tion is to be limited only in accordance with pen section and the front edge of said protector engaging portion, on its opposite side, touch the inner surface of the bore of the 1. In combination with a pen having a protector, the nib point being at this time

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