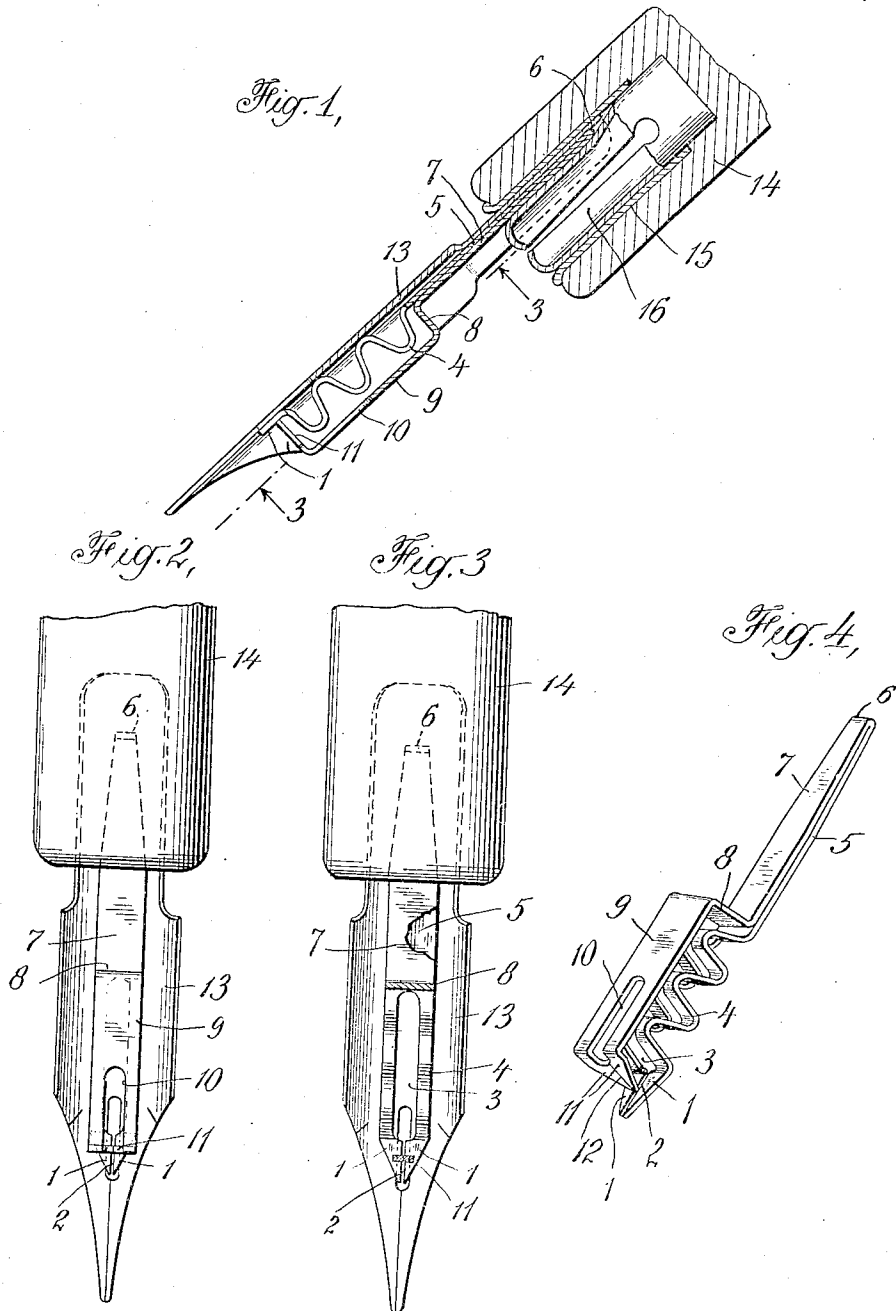


1,337,196.

C. F. CLARKE.
PEN ATTACHMENT
APPLICATION FILED OCT. 2, 1919.

Patented Apr. 20, 1920.



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UNITED STATES PATENT OFFICE.

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PEN ATTACHMENT.

1,337,196.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES F. CLARKE, a subject of the King of Great Britain, residing at Madison, in the county of Dane, State of Wisconsin, have invented certain new and useful Improvements in Pen Attachments; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an attachment for use with the ordinary steel pen, whereby a fairly large amount of ink is taken up at each dip of the pen whereby continual dipping of the pen in the ink is avoided, and a device approaching the time saving advantages of the ordinary fountain pen is obtained, and which, at the same time, is very much cheaper than the ordinary fountain pen.

One of the advantages of the invention is to provide a one-piece sheet metal ink-holding attachment, provided with a number of slots and configurations which hold ink by capillary attraction, and also provided with split feeding points whereby the ink is readily and freely fed to the pen nib.

It is another object of the invention to provide an ink-holding attachment which may be assembled in position with the ordinary pen holder without any extraneous attachments at all.

Other objects and advantages will appear as the description proceeds.

In the drawings illustrating one embodiment of my invention,

Figure 1 is a sectional view of a pen nib in position in a pen holder, with my improved ink-holding attachment in operative relation therewith;

Fig. 2 is a view looking at the underside of the pen nib;

Fig. 3 is a section on the line 3—3 of Fig. 1; and

Fig. 4 is a perspective view of my ink-holding attachment apart from the pen and as it would be sold.

My improved ink-holding attachment is preferably made out of a single piece of metal. At one end the metal is pointed as at 1, and provided with a slit 2. At the inner end of the slit 2 there is punched a relatively wide slot 3, the parts of the metal adjacent the slot being bent into corrugations 4.

The metal beyond the corrugations is merged into a flat portion 5 which merges into the bend 6 and a second flat portion 7, the two mentioned portions 5 and 7 being bent into intimate contact with each other to form a mounting shank for holding the attachment in position.

Portion 7 merges into a bent portion 8 and a substantially flat portion 9, portion 9 being substantially co-extensive with the corrugations 4. Portion 9 is also provided with an ink-holding slot 10. Portion 9, at this end, is pointed and bent downwardly as at 11 into contact with the already described points 1. This pointed portion is slitted as at 12.

When the ink-holding attachment is assembled in operative relation with the ordinary pen nib as shown in Fig. 1, where the pen nib is indicated at 13, it is held in position in the pen holder 14 by being pushed into the slot 15 between the outer shell of the pen holder and the shell element 16 mounted in the pen holder.

The shank portion of my ink-holding attachment which may be curved, if desired, but which I have shown as flat, is pushed into the same slot 15 as the pen nib 13, whereby the pointed end 1 and the lower bends of the corrugations as shown in Fig. 4 are in contact with the pen nib. Ink is retained in the slit 2, in the slot 3 and in the spaces between the corrugations 4, and also in the slot 10 and slit 12. The pointed portions 11 may be made near enough to the first corrugation so that ink is retained between it and the first corrugation. Capillary attraction holds the ink in the described places, the amount of ink that is taken up, of course, depending upon the size of these several ink-holding spaces as well as on the fluidity of the ink used. It should, of course, be understood that the sizes of the various slots of the corrugations, etc., may be changed to suit the fluidity of the ink used and according to the amount of ink that it is desired to take up. An ink-holding device of this character, it has been found, will take up enough ink to write approximately five hundred words.

I claim:

1. An ink-retaining and feeding attachment for a pen nib, comprising a slotted, corrugated element, terminating at one end in a split, nib-contacting portion, and terminating at the other end in a mounting por-

tion, and a second element substantially co-extensive with said corrugated element, which, at one end, is bent into contact with said nib-contacting portion of the corrugated element.

2. In combination, a pen nib, an ink retaining and feeding attachment associated therewith, comprising ink retaining elements formed on opposite ends of a bent metallic strip, the portion of said strip adjacent the bend serving as a mounting shank, the strip being bent on itself so that said ink retaining elements are held in juxtaposition.

3. An ink-retaining and feeding attachment for a pen nib, comprising a corrugated, slotted element formed on one end of a metallic strip, a portion co-extensive with said element formed on the other end of said strip, the said strip being bent on itself to bring the said element and said portion into juxtaposition, the portion of the metallic strip adjacent the bend serving as a mounting shank for holding the mentioned parts in place.

4. An ink-retaining and feeding attachment for a pen nib, comprising a slotted,

nib-contacting portion, split at one end, a co-extensive portion terminating at one end in a part bent into contact with the split end of said nib-contacting portion, and means for holding said two portions in operative relationship.

5. An ink-retaining and feeding attachment for a pen nib, comprising a slotted, nib-contacting portion, split at one end, a co-extensive portion terminating at one end in a split part bent into contact with the split end of said nib-contacting portion, and means for holding said two portions in operative relationship.

6. An ink-retaining and feeding attachment for use with a pen nib, comprising a slotted, corrugated portion, merging at one end, into a forwardly extending, split, nib-contacting portion, a slotted, substantially flat portion, co-extensive with said corrugated portion and merging, at one end, into a split portion that is bent into contact with said nib contacting portion, and means for mounting said parts in operative relation with the pen nib.

In testimony whereof I affix my signature.
CHARLES F. CLARKE.