April 19, 1932. D. J. LA FRANCE 1,854,747

CLIP FOR FOUNTAIN PENS AND PENCILS

Filed March 16, 1931

Fig. 1

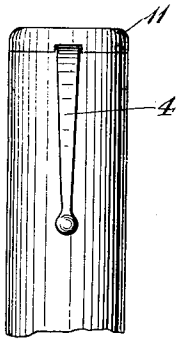


Fig. 2.

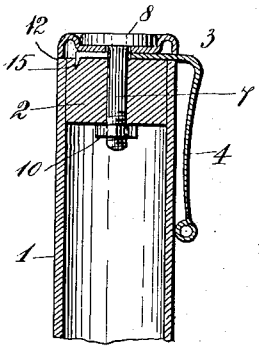


Fig. 3.

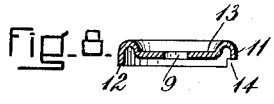
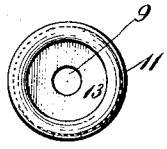


Fig. 8.

Fig. 7.



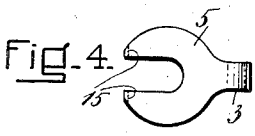


Fig. 4.

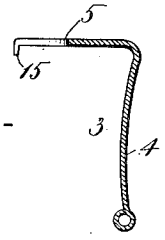


Fig. 6.

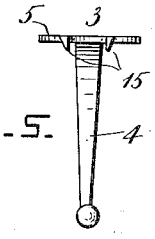
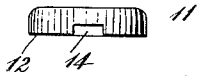


Fig. 5.

Fig. 9.



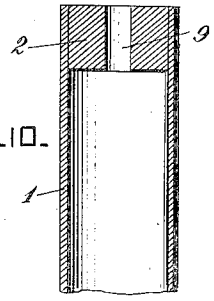


Fig. 10.

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UNITED STATES PATENT OFFICE

DAVID J. LA FRANCE, OF CAMBRIDGE, MASSACHUSETTS, ASSIGNOR TO THE CARTER'S INK COMPANY, OF CAMBRIDGE, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS

CLIP FOR FOUNTAIN PENS AND PENCILS

Application filed March 16, 1931. Serial No. 522,912.

The invention relates to a clip for fountain pens or pencils and more particularly to the method of securing and retaining the clip.

The essential object of the invention is to provide a clip assemblage by which the clip will be securely though releasably retained, and a clip assemblage, also, that will present a pleasing appearance.

The invention can best be seen and understood by reference to the drawings in which the clip is shown applied to a tubular shell which for purposes of illustration may be either the cap of a fountain pen or the barrel of a pencil, and in which—

Figure 1 is a front elevation of the assembled shell and clip.

Fig. 2 is a vertical cross section thereof.

Fig. 3 is a side elevation of the stud which forms one of the assembled parts later to be referred to.

Fig. 4 is a plan of the turned bifurcated end of the clip.

Fig. 5 is a front elevation of the clip.

Fig. 6 is a vertical section of the clip.

Fig. 7 is a plan of the formed piece later to be referred to.

Fig. 8 is a cross section of the formed piece.

Fig. 9 is a front elevation of the formed piece, and

Fig. 10 is a vertical section of the tubular shell to which the clip is applied.

Referring to the drawings:—

1 represents a tubular shell which, as explained above, may be either illustrative of the cap of a fountain pen or the barrel of a pencil. The shell is provided with a closed end 2, preferably effected by means of a plug fixed securely in place in the end of the shell.

3 represents the clip of which 4 is the body of the clip or working arm thereof, and 5 the turned end of the clip or arm through which the clip is held in place and this end is preferably made bifurcated as shown in Fig. 4

The angular formation of the clip or bend thereof, when the clip is made in one integral piece (as it is preferably so made), is such that the body or arm 4 of the clip will hang downward over the side of the tubular shell in the usual manner of a clip, while the turned end thereof will extend inwardly over the closed end 2 of the tubular shell with bearing against it. 6 is a stud which assists in the retention of the clip, 7 representing the shank of the stud and 8 its head.

In the assembled parts the shank of the stud is passed through the bifurcated turned end 5 of the clip and thence through and beyond an opening 9 formed within the end of the tubular shell and is retained inside the shell by a nut 10 on the threaded end of the shank with bearing, when tightened, against the under side of the end 2.

Arranged between the head of the stud and turned end 5 of the clip superposed thereon is a formed piece 11. This piece is dished on its under side whereby it will envelop the turned end of the clip and bear along its bottom edge 12 against the outer closed end of the tubular shell. The formed piece 11 is also preferably dished on its upper side to form a socket 13 for receiving the head 8 of the stud. The formed piece is also provided with a slot 14 cut in the side thereof adjacent its bottom edge, and through which slot the clip extends to pass over the closed end of the shell as aforesaid.

In the assemblage of the parts thus far referred to for attaching the clip to the shell, the turned bifurcated end of the clip is first applied to the closed end 2 of the tubular shell. The formed piece 11 is then superposed thereon to fit around the turned end of the clip with bearing against the end of the tubular shell. The stud is then applied with the shank passing through the formed piece 11, through the bifurcated turned end of the clip, and through the opening 9 in the end of the tubular shell until the head of the stud lies socketed within the formed piece. The nut 10 is then applied to the threaded end of the shank and tightened against the inner closed end 2 of the tubular shell whereupon the clip will be held securely in place, the turned end of the clip being entirely concealed by the formed piece. The side edge of this piece will then appear as a ring around the turned end of the clip and also the head of the stud, and imparts a finish to the top end of the shell.

The clip may be released simply by loosening the tightening nut 10 in an amount sufficient to slip the bifurcated turned end of the clip from out beneath the formed piece 11 which envelops it, after which the clip may be reinserted without removal of the nut or further disassembling of the parts.

With the parts thus assembled and the clip retained, there is a possibility that the clip, though held in place might turn around the shell. To prevent this the turned end 5 of the clip is provided with one or more prongs 15 adapted and arranged to have biting engagement with the end of the tubular shell when the nut 10 is tightened and accordingly the stud itself tightened forcing the turned end of the clip hard against the closed end of the shell. The turned end of the clip will then be held immovably against rotation and, inasmuch as the clip is passed through the slot 14 in the formed piece, it also will be held against rotation.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States:—

1. In a device of the type specified, the combination comprising a tubular shell having a closed end, a clip having an end turned to extend over said closed end of the tubular shell and bearing against it, a headed stud passed through said end of the clip and through said closed end of the tubular shell, a formed piece superposed upon said end of the clip and against which piece said head of the stud has bearing, said piece being dished on its under side whereby it will envelop said turned end of the clip and bear against said end of the tubular shell, means inside the tubular shell for tightening and holding said stud, and a prong on said turned end of the clip adapted and arranged to have biting engagement with said end of the tubular shell on tightening said stud.

2. In a device of the type specified, the combination comprising a tubular shell having a closed end, a clip having an end turned to extend transversely over said closed end of the tubular shell and bearing against it, a formed piece enveloping said end of the clip and bearing against it, fastening means including a stud passed through said end of the clip for securing said piece to the end of the shell whereby said piece will be moved to have engagement with said end of the clip on tightening said fastening means, and a prong on said end of the clip adapted and arranged to have biting engagement with said end of the tubular shell on tightening said fastening means.

3. In a device of the type specified, the combination comprising a tubular shell having a closed end, a clip having a bifurcated end turned to extend transversely over said closed end of the tubular shell and bearing against it, a formed piece enveloping said end of the clip and bearing against it, fastening means including a stud passed through said end of the clip for securing said piece to the end of the shell whereby said piece will be moved to have drawing engagement with said end of the clip on tightening said fastening means, and prongs on said bifurcated end of the clip adapted and arranged to have biting engagement with said end of the tubular shell on tightening said fastening means.

4. In a device of the type specified, the combination comprising a tubular shell having a closed end, a clip having an end turned to extend transversely over said closed end of the tubular shell and bearing against it, a formed piece dished on its under side whereby it will envelop said end of the clip and bear against it, said piece having also a slot in the side thereof adjacent its bottom edge through which the clip extends, fastening means including a stud passed through said end of the clip for securing said piece to the end of the shell whereby said piece will be moved to have engagement with said end of the clip on tightening said fastening means, and a prong on said end of the clip adapted and arranged to have biting engagement with said end of the tubular shell on tightening said fastening means.

DAVID J. LA FRANCE.