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## PATENT SPECIFICATION

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679.065



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#### COMPLETE SPECIFICATION

## Improvements in Pocket Clips for Fountain Pens, Pencils and the like

We, THE LANG PEN COMPANY LIMITED. a Body Corporate duly organised under the Laws of Great Britain, of 13, Hope Street, Liverpool, 1, in the County of Lancaster, England, do hereby declare the invention, for which we pray that a potent way her great the street way. patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the 10 following statement:

This invention relates to pocket clips

for articles such as fountain pens, pencils and the like and has more especial reference to those mounted at one end of the instrument, usually on the end of the cap or nib cover in the case of a fountain pen, the invention being an improvement in, or modification of, the clip assembly described in Patent Specification No.

621,354.

In Patent Specification No. 636,823 an improved pocket clip assembly for a fountain pen or like article is described 25 wherein the clip proper is formed with a retaining ring which is in line with, or in the same plane as, the arm of the clip and is adapted to be received in a slot formed for the purpose in the end of the 30 article and to be prevented from outward displacement by an eye-bolt pivotally attached to the ring and carrying an abutment co-operating with the rear or interior of the slotted end of the article, 35 and wherein a compression spring is interposed between the abutment and the interior of the slotted end portion of the article in such manner that additional resilience is afforded to the arm of the clip 40 movement of which away from the wall of the cap compresses the spring. In the preferred form of this assembly the abutment is a nut screwed on to the eye-bolt and the retaining ring is formed on a 45 cranked end portion of the clip proper,

[Price 2/8]

the free end of which acts as a fulcrum about which the clip and eve-bolt can move in relation to the article against the resistance of the spring.

According to the present invention the 50 free end of the eye-bolt and the abutment instead of being screw-threaded, are formed with an enlarged head or flange and the other with a complementary shoulder adapted to engage the rear of 55 such head or flange. One or each of these elements is resilient so as to permit assembly by a single rapid operation in which the shouldered portion of one element is forced or sprung over the head or 60 flange of the other element.

Apart from increased ease and speed of this arrangement reduces assembly, machining and production costs by

eliminating the two screw-threads of the aforementioned earlier construction.

In a preferred embodiment the eye-bolt is formed with a rigid enlarged mushroom head, while the abutment is a short tube, 70 longitudinally split, e.g. in four places to provide the necessary resilience, having a step in the split part of its bore to provide the shoulder and an annular end flange to seat a coil spring surrounding the abutment and the eye-bolt. This arrangement may, if desired, be reversed, the eye-bolt being of hollow tubular construction while the abutment is formed with the enlarged head, and it will also 80 be appreciated that in either case the head may be longitudinally split to provide resilience instead of the tubular element being split.

The assembly may be mounted on a 85 separate fitment adapted for attachment to the article. Preferably, however, in . the case of a cap for a fountain pen, the cap is a unitary metal shell having a rounded end formed with the cross slot 90

for receiving the cranked end portion of the clip and carrying an internal liner or insert housing and guiding the spring and movable abutment.

The invention will be further described with reference to the accompanying drawings in which it is illustrated by way of

example and in which;

Fig. 1 is an elevational view partly in section of a fountain pen cap having a separate end fitment mounting the clip

Fig. 2 is a vertical section of such fitment showing also how it may be used 15 as an insert for a cap formed as a unitary metallic shell.

Figs. 3 to 6 are detail views of the other components of the clip assembly to

the same scale.

Referring now to the drawings, generally designates the nib cap or cover consisting of a tube of vulcanite, ebonite or other plastic material, arranged to be a push fit on, or to be screwed on to, a pen body or barrel so as to cover the writing point when the pen is not in use.

The upper end of the cap 1 is formed as a separate fitment 2 interiorly screwthreaded at 3 to screw on to a complementary threaded portion 4 of the cap, and providing the anchorage for a pocket clip generally designated 5 by which the article may be retained in the pocket.

As in the construction according to the parent Patent Specification No. 621,354 the clip 5 is bent up from sheet metal to channel section and has a cranked portion 6 shaped to occupy a diametrical slot 7 in the domed end 8 of the fitment 2.

An axial aperture or bore 9 connects the slot 7 with a hollow cylindrical portion or cavity 10, there being an annular abutment 11 or shoulder between the bore

9 and the cavity.

The channel walls of the cranked portion 6 of the clip 5 are perforated to take a pin 15 which mounts between said channel walls an eye 16 of a retaining bolt 17, the stem whereof passes through 50 the axial hole 9 and carries a coil com-

pression spring 18 and abutment member 19.

In contradistinction to the arrangements shown in the parent Patent Speci-55 fication and in Specification No. 636,823 where the bolt is threaded to mount a nut forming an abutment, the abutment member 19 according to the present invention automatically engages a mushroom head

60 20 formed on the retaining bolt 17 when the abutment is pushed home to position during assembly.

As is shown more clearly in Figs. 5 and 6 the abutment member 19 includes a 65 tubular portion 21 which is longitudin-

ally split at 22 in four places to provide the necessary resilience and is stepped at 23 to provide the shoulder which springs over the head 20 of the bolt 17, the short tubular portion of the abutment also 70 serving to centralise the coil spring 18 which operates between the movable abutment 19 on the retaining bolt 17 and the annular abutment surface L1 at the inner end of the cylindrical recess 10.

In use when the arm of the clip 5 is moved away from the wall of the cap 1 the spring 18 is compressed and tends to urge the arm back to the position shown in Fig. 1 owing to the end 24 of the 80 cranked portion 6 of the clip bearing on

base of the slot 7.

As is shown in Fig. 2 the fitment 2 may be formed as a liner or insert adapted to be received within a unitary metal shell 85 25 forming the cap, such shell being provided with a diametrical slot 26 across its domed end coinciding with the slot 7 in the fitment and the tapped portion 3 of the latter being adapted to receive and 90 mount, after assembly of the clip, a shutoff element or inner cap sealing the nib end of the pen when the cap or cover is in place.

As shown in Fig. 1. the cranked por- 95 tion of the clip is curved to a similar contour to that of the cap end so as to lie flush in the cross slot and provide a robust construction of pleasing appearance.

What we claim is:-1. An improvement in or modification of the pocket clip for a fountain pen or the like according to Patent Specification No. 621,354 wherein the member carrying the abutment and such abutment are 105 formed, the one with an enlarged head or flange and the other with a complementary shoulder adapted to engage the rear of such head or flange.

2. A pocket clip for a fountain pen or 110 like article according to the preceding claim wherein at least one of the complementary elements is resilient so as to permit assembly by a single rapid operation in which the shouldered portion of one 115 element is forced or sprung over the head or flange of the other element.

3. A pocket clip for a fountain pen or like article according to either of the Ireceding claims wherein the member is an 120 eyebolt formed at its free end with a rigid enlarged mushroom head and the abutment is a longitudinally split to be sprung over such head.

4. A pocket clip for a fountain ren or 125 like article according to any of the preceding claims including a coil compression spring interposed between the abutment and the interior of the slotted end portion in such manner that movement of 130

100

the clip arm away from the wall of the

article compresses the spring.

5. A pocket clip for a fountain pen or like article according to any of the pre-5 ceding claims applied to a cap or nib cover which is a unitary metal she'll having a rounded end formed with a cross slot for receiving the cranked portion of the clip including an internal liner or 10 insert mounting and guiding the retaining bolt and movable abutment.

6. A pocket clip for a fountain pen or like article constructed and adapted to operate substantially as described with reference to the accompanying drawings. 15

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### PROVISIONAL SPECIFICATION

# Improvements in Pocket Clips for Fountain Pens, Pencils and the like

We, THE LANG PEN COMPANY LIMITED, a Body Corporate duly organised under the Laws of Great Britain, of 13, Hope Street, Liverpool, 1, in the County of Lancaster, do hereby declare this invention to be described in the following

statement:

This invention relates to pocket clips for articles such as fountain pens, pencils and the like and has more especial reference to those mounted at one end of the instrument, usually on the end of the cap or nib cover in the case of a fountain pen, the invention being an improvement in, 30 or modification of, the clip assembly described in Patent Specification No.

621,354. In Patent Specification No. 636,823 an improved pocket clip assembly for a 35 fountain pen or like article is described wherein the clip proper is formed with a retaining ring which is in line with, or in the same plane as, the arm of the clip and is adapted to be received in a slot 40 formed for the purpose in the end of the article and to be prevented from outward displacement by an eye-bolt pivotally attached to the ring and carrying an abutment co-operating with the rear or 45 interior of the slotted end of the article, and wherein a compression spring is interposed between the abutment and the interior of the slotted end portion of the article in such manner that additional 50 resilience is afforded to the arm of the clip, movement of which away from the wall of the cap compresses the spring. In the preferred form of this assembly the abutment is a nut screwed on to the eye-55 bolt and the retaining ring is formed on a cranked end portion of the clip proper, the free end of which acts as a fulcrum about which the clip and eye-bolt can move in relation to the article against the

60 resistance of the spring. According to the present invention the free end of the eye-bolt and the abutment, instead of being screw-threaded, are formed the one with an enlarged head or flange and the other with a complement- 65 ary shoulder adapted to engage the rear of such head or flange. One or each of these elements is resilient so as to permit assembly by a single rapid operation in which the shouldered portion of one ele- 70 ment is forced or sprung over the head or flange of the other element.

Apart from increased ease and speed of this arrangement reduces and production costs by 75 assembly, machining eliminating the two screw-threads of the aforementioned earlier construction.

In a preferred embodiment the eye-bolt is formed with a rigid enlarged mush-room head, while the abutment is a short 80 tube, longitudinally split, e.g. in four places to provide the necessary resilience, having a step in the split part of its bore to provide the shoulder and an annular end flange to seat a coil spring surround- 85 ing the abutment and the eye-bolt. This arrangement may, if desired, be reversed, the eye-bolt being of hollow tubular construction while the abutment is formed with the enlarged head, and it will also 90 be appreciated that in either case the head may be longitudinally split to provide resilience instead of the tubular element being split.

The assembly may be mounted on a 95 separate fitment adapted for attachment to the article. Preferably, however, in the case of a cap for a fountain pen, the cap is a unitary metal shell having a rounded end formed with the cross slot for receiv- 100 ing the cranked end portion of the clip and carrying an internal liner or insert housing and guiding the spring and movable abutment. The liner or insert may also have a tapped extremity of greater 105 diameter than its bore and constituting an extension thereof beyond the movable abutment, such tapped extension being adapted to receive and mount, after

assembly of the clip, a shut-off element or inner cap adapted to seal the nib end of the pen.

Furthermore, the clip, with its arm 5 and cranked portion, is preferably of channel section bent up from sheet metal, the cranked portion being curved to a similar contour to that of the cap end

so as to lie flush in the cross slot and provide a robust construction of pleasing 10 appearance.

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