PATENT SPECIFICATION

Application Date: Aug. 3, 1940. No. 12554/40. **541,190**

Complete Specification Left: July 30, 1941.

Complete Specification Accepted: Nov. 17, 1941.

PROVISIONAL SPECIFICATION

Improvements in or relating to Fountain Pens, Propelling Pencils and the like

We, MENTMORE MANUFACTURING Co. LIMITED, a Company registered under the laws of Great Britain, of Tudor Grove, Well Street, Hackney, London, E.9, and HENRY FRANKEL, a Subject of the King of Great Britain, of 40, Hadley Court, Cazenove Road, Stoke Newington, London, N.16, do hereby declare the nature of this invention to be as follows:—

This invention relates to fountain pens, propelling pencils and the like and is concerned more particularly with the pocket clips of such articles which are made from synthetic resins and similar artificial materials by moulding processes employing heat and pressure.

Usually pocket clips are formed of metal and are attached to the pen cap or the barrel or body of the pencil by an extension, for example of ring form, secured between two separable parts of the cap, barrel or body. Or they have been attached by projections passed through openings and bent-over.

It is an object of the present invention to provide a construction of pen or pencil having a pocket clip in which the use of metal is completely dispensed with and which will be cheaper than known constructions.

In the specification of our prior Patent No. 501,523 there is described a fountain pen or the like made from an artificial material such as celluloid or a synthetic resin and having a pocket clip of the same material secured thereto by means of an adhesive or cement or by means of a metal or other fastening.

According to the present invention a fountain pen, propelling pencil or the like made from a synthetic resin or similar artificial material by a moulding process employing heat and pressure has a pocket clip of the same material formed integrally therewith.

In moulding, for example, a fountain pen cap having an integral pocket clip according to the present invention the mould has to be in two parts which meet in the closed position on the centre line of the clip. Each part of the mould has a projecting portion which portions meet together when the mould is closed to produce a space between the tongue of the clip and the body of the cap. The two parts of the mould may be hinged together if desired.

The clip may be produced in any position on the cap which is desired, that is for example it may extend from the middle of the cap or from towards the top, appropriate forms of mould being used.

It will be appreciated that by forming the pocket clip integrally with the fountain pen cap or pencil any possibility of the clip becoming loose is avoided and it cannot become lost. Furthermore at least one of the usual steps in the assembly of the pen or the like is no longer required.

Dated this 3rd day of August, 1940.

For the Applicants,
RAWORTH, MOSS & COOK,
75, Victoria Street, London, S.W.1,
Chartered Patent Agents.

COMPLETE SPECIFICATION

Improvements in or relating to Fountain Pens, Propelling Pencils and the like

We, MENTMORE MANUFACTURING Co. LIMITED, a Company registered under the laws of Great Britain, of Tudor Grove, Well Street, Hackney, London, E.9, and HENRY FRANKEL, a Subject of the King of Great Britain, of 18, Richmond Hill Court, Richmond, in the County of Surrey, formerly of 40, Hadley Court, Cazenove Road, Stoke Newington, London, N.16, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

[Price 1/-]

Price 4s 6d

This invention relates to fountain pens, propelling pencils and the like and is concerned more particularly with the pocket clips of such articles as are made from synthetic resins and similar artificial materials, such as celluloid or cellulose acetate plastics, by moulding processes employing heat and pressure.

Usually pocket clips are formed of metal and are attached to the pen cap or the barrel or body of the pencil by an extension, for example of ring form, secured between two separable parts of the cap, barrel or body. Or they have been attached by projections passed through openings and bent-over.

In the specification of the Applicant Company's prior Patent No. 501,523, there is described a fountain pen or the like made from an artificial material such as celluloid or a synthetic resin and having a pocket clip of the same material secured thereto by means of an adhesive or cement or by means of a metal or other fastening.

It is an object of the present invention to provide a construction of pen or pencil having a pocket clip in which the use of metal for making the clip, or of adhesive or cement or metal or other fastenings for securing the clip, is completely dispensed with and which will be cheaper than known constructions.

According to the present invention, a fountain pen, propelling pencil or the like or a cap therefor made from a synthetic resin or similar artificial material, such as celluloid or cellulose acetate plastics by a moulding process employing heat and pressure has a pocket clip of the same material formed integrally therewith.

In moulding a fountain pen, propelling pencil or the like, or a cap therefor, according to the present invention, it is preferred to employ a mould comprising two parts which meet in the closed position on the centre line of the clip. Each part of the mould has a narrow surface portion providing complementary portions which meet together when the mould is closed to produce a space between the tongue of the clip and the body of the pen or pencil for allowing application of the clip to the edge of the pocket. The two parts of the mould may be hinged together if desired.

By way of illustration of the invention and in order to give an appropriate example of the way in which the invention may be carried into effect, reference is directed to the accompanying drawing, wherein:—

Figure 1 is an elevation of a fountain pen cap having a pocket clip in accordance with the present improvements,

Figure 2 is a similar view taken at right angles to Figure 1,

Figure 3 illustrates in sectional plan, on the line III—III of Figure 4, a mould suitable for use in making the cap,

Figure 4 is a section on the line IV—IV of Figure 3, and

Figure 5 is a section on the line V—V of Figure 3.

In Figures 1 and 2, the cap marked 1 may be assumed to be made of synthetic resin and has a pocket clip 2 of the same material formed integrally therewith at a comparatively thick neck part 3 of the clip. The cap is made by a moulding process employing heat and pressure and, as shown by Figures 3 to 5, the mould used in such a process suitably comprises two parts 4, 5, which meet in the closed position on the centre line of the clip 2 and if desired may be hinged together. Each of these parts, 4, 5, has a narrow surface portion 6, and these portions meet together when the mould is closed, see Figure 5, in order to produce a space 7 between the tongue 8 of the clip and the body of the cap. The mould, of course, is suitably constructed for the mounting of an appropriate core such as 9 for forming the hollow interior of the cap and an aperture is provided at a suitable place, as at 10, for filling the mould. The formation of the mould depressions 11 is such that after the application of heat and pressure in the moulding process, the clip is formed with its neck part 3 completely integral with the body of the cap as indicated by way of reference at 12 in Figures 3 and 4. After moulding, the exterior and interior of the cap and the clip may be finished off in any suitable manner and owing to the thick neck part 3 the integral connection of the clip with the cap is very strong. On the other hand, the tongue part 8, though of appropriate robustness for its intended purpose, is comparatively slender as compared with the neck and thus is sufficiently resilient for clipping over the edge of the pocket which is received in the space 7. The clip is suitably thickened or enlarged at the end, as at 13, with a rounding off, as at 14, for well-known purposes.

The clip may be produced in any desired position on the cap 1, that is to say, for example, it may extend from about the middle of the length of the cap (as shown in Figures 1 and 2) or from towards the top, appropriate forms of mould being used in each instance.

In the case of a propelling pencil, the clip may similarly be formed in the moulding of the pencil body as will be understood without further illustration.

It will be appreciated that by forming

the pocket clip integrally with the fountain pen cap or pencil any possibility of the clip becoming loose is avoided and it cannot become lost. Furthermore at least one of the usual steps in the assembly of the pen or the like is no longer required.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A fountain pen, propelling pencil or the like or a cap therefor made from a synthetic resin or similar artificial material, such as celluloid or cellulose acetate plastics by a moulding process employing heat and pressure, and having a pocket clip of the same material formed integrally therewith.

2. In the production of a fountain pen, propelling pencil or the like or a cap therefor according to Claim 1, the employment of a mould comprising two parts which meet in the closed position on the centre line of the clip, each of the two parts having a narrow surface portion providing complementary portions which meet together when the mould is closed to produce a space between the tongue of the clip and the body of the pen or pencil for allowing application of the clip to the edge of the pocket.

3. In the production of a fountain pen, propelling pencil or the like or a cap therefor according to Claim 1, the employment of a mould as claimed in Claim 2 and having the two parts hinged together.

4. A fountain pen cap substantially as described with reference to Figures 1 and 2 of the accompanying drawing.

5. For the production of a fountain pen cap, a mould constructed substantially as described with reference to Figures 3 to 5 of the accompanying drawing.

Dated this 30th day of July, 1941.

For the Applicants,
RAWORTH, MOSS & COOK,
75, Victoria Street, London, S.W.1,
Chartered Patent Agents.

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FIG. 1.

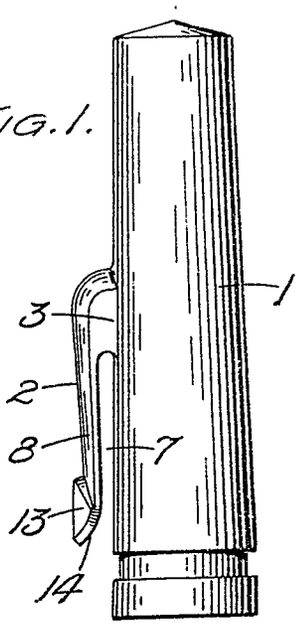


FIG. 2.

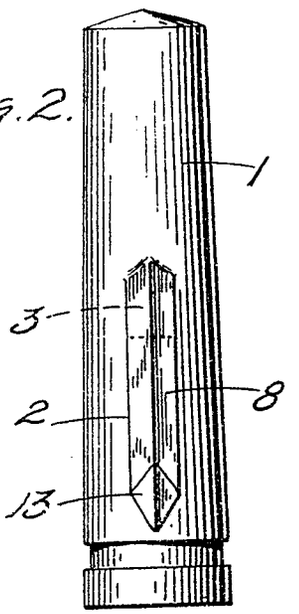


FIG. 3.

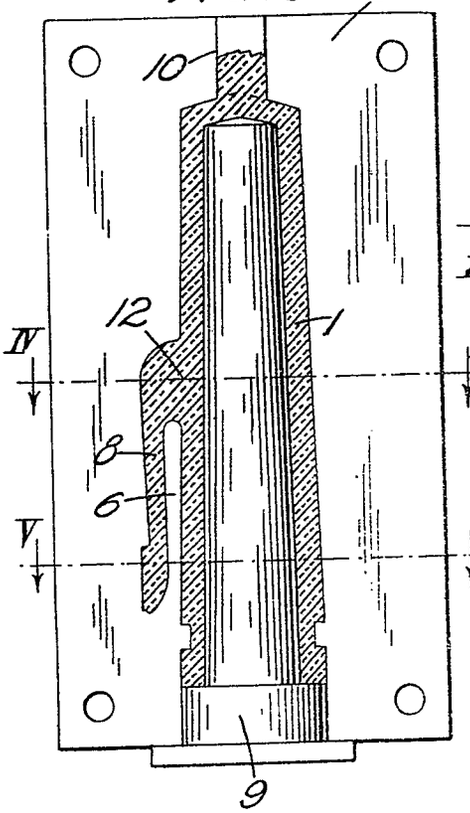


FIG. 4.

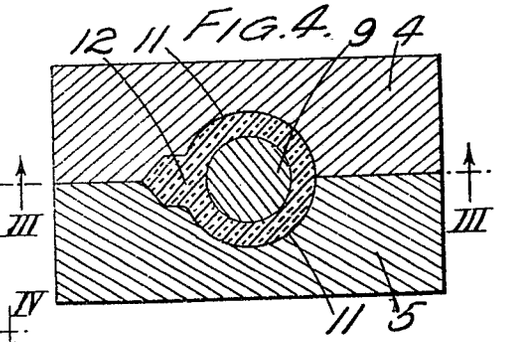
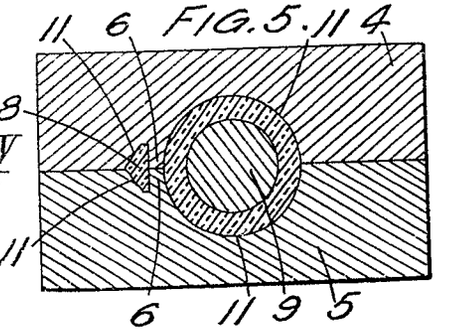


FIG. 5.



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