

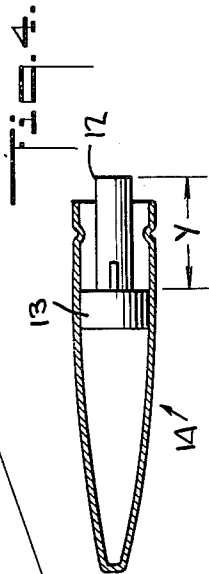
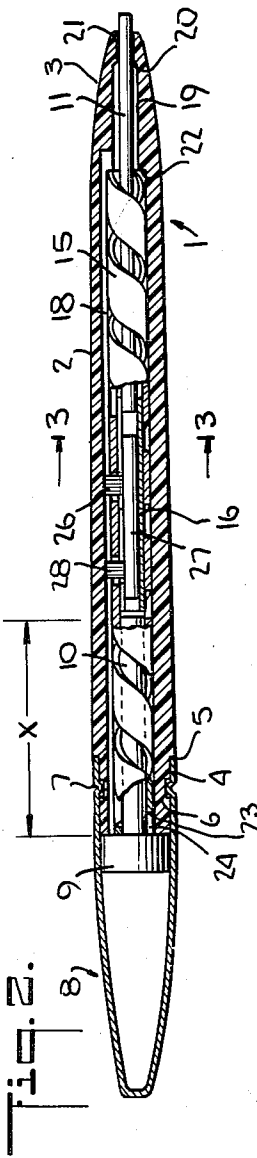
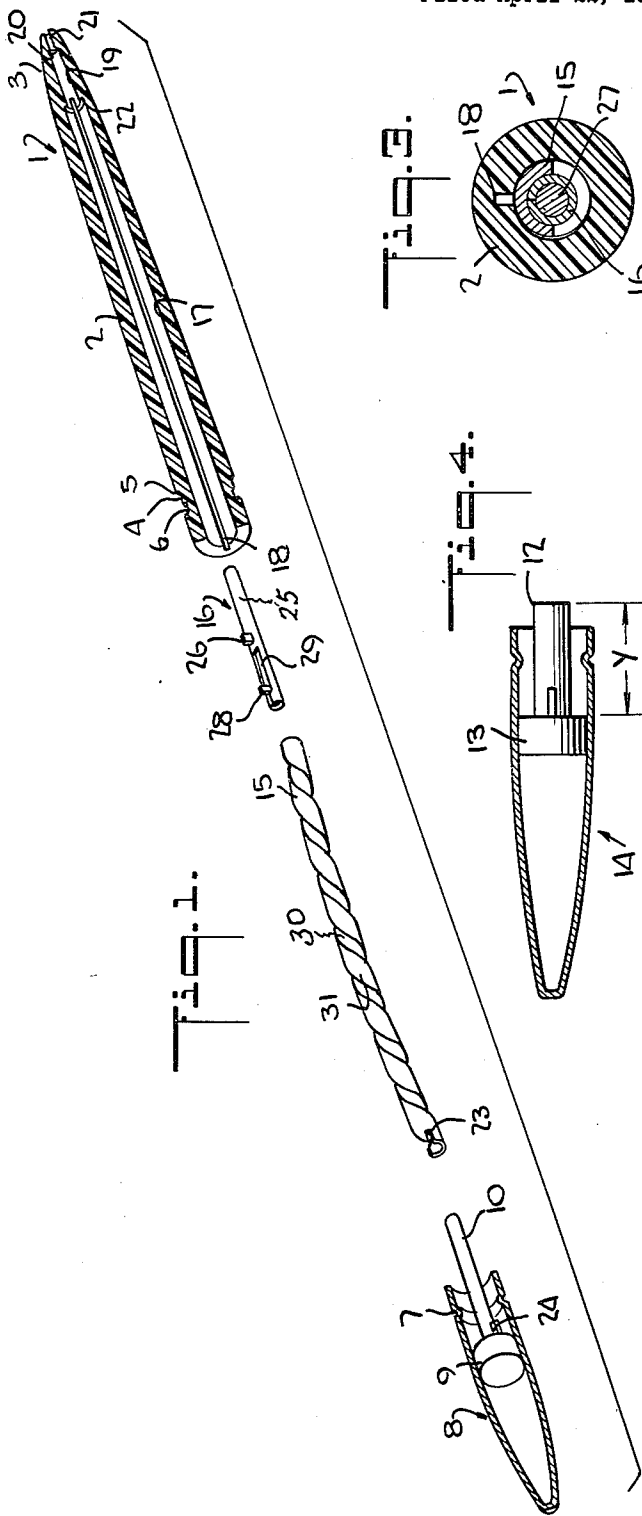
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COSMETIC IMPLEMENTS

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COSMETIC IMPLEMENTS
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This invention relates to eyelid liners, eyebrow pencils and the like cosmetic implements.

Among the objects of the present invention, it is aimed to provide an improved eyelid liner, eyebrow pencil and the like cosmetic implement characterized by reducing the cost of assembling to a minimum in the following respects: (1) positioning in place and frictionally securing the driving spiral in such predetermined place, (2) positioning a predetermined coloring stem in place ready for use with a conventionally sized barrel, (3) frictionally anchoring the driving spiral in place in the barrel to facilitate manipulating the coloring stem after the coloring stem has been ejected the desired extent, and (4) snapping the barrel composed of a plastic material such as butyrate having an annular groove into a locking position with an inwardly extending annular rib on a cap composed of yieldable metal such as brass.

In the accompanying drawings:

FIG. 1 is an exploded side elevational view partly in section of the implement.

FIG. 2 is an assembled side elevational view partly in section slightly larger in size than FIG. 1.

FIG. 3 is a section enlarged on the line 3—3 of FIG. 1.

FIG. 4 is a side elevation partly in section of a modification of the cap illustrated in FIGS. 1 and 2.

In the embodiment shown in FIGS. 1, 2 and 3, there is illustrated a barrel 1 composed of a plastic material such as butyrate having an outer main substantially cylindrical surface 2 tapering inwardly slightly at its front end 3 and having a diminished rear portion 4 defined from the surface 2 by the shoulder 5. In the diminished portion 4 there is provided an annular recess 6 to receive the inwardly extending annular rib 7 formed in the cap 8 preferably composed of a yieldable metal such as brass. The cap 8 tapers inwardly in its rearward direction. The yieldability of the metal of the cap 8 permits the diminished portion 4 of the barrel to be thrust into the same and the annular rib 7 thereupon to snap into the annular recess 6 of the diminished portion 4 to lock the parts to one another. Before positioning the cap 8 into the diminished portion 4, however, there is first frictionally anchored in the cap 8 the plug 9 having a stem 10 extending forwardly therefrom. The plug 9 and stem 10 are preferably composed of a one piece zinc die casting. The length and diameter of the stem 10 depends upon the length and diameter of the coloring stem to be used. With a coloring stem 11 of about one and three-eighths inches in length and a diameter of 0.79 inch, excellent results have been achieved when the length of the stem 10 is about .950 inch and the diameter of the stem 10 is about .096 inch. In turn when a thicker coloring stem is used of about .118 inch in diameter and in length longer than 1 3/8 inches, the length of the coloring stem 11, then a limiting stem 12 as shown in FIG. 4 having a length of about .500 inch and a diameter of about .134 inch would be preferred. The diameter and thickness of the plug 13 connected to the limiting stem 12 and the dimensions of the cap 14 associated with the limiting stem 12 may be substantially the same as the diameter and thickness of the plug 9 and the dimensions of the cap 8 respectively. Obviously if a thicker coloring stem, not shown, is used with the embodiment illustrated in FIG. 4, then similarly the size and proportion of the driving spiral, ejecting shoe and channels in the barrel 1 would be increased in size to correspond.

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After securing the plug 9 in place in the cap 8 with the embodiment illustrated in FIGS. 1, 2 and 3, the barrel 1, spiral driver or driving spiral 15 and shoe 16 are secured to the plug 9 and cap 8 by means now to be described.

The barrel 1 is provided with an enlarged cylindrical channel 17 extending from the rear end of the barrel 1 up to the front end portion 3 with a laterally extending recess 18 extending outwardly from the channel 17 and continuing beyond the front end of the channel 17 as a lateral extension for a short distance of the narrow channel 19 which extends from the large channel 17 to the shoulder 20 adjacent the extreme front end of the front end portion 3 from which shoulder 20, a still narrower channel 21 extends to the extreme front end of the portion 3, all channels 17, 19 and 21 being coaxial with one another.

In the channel 17 there is positioned the conventional driving spiral or spiral driver 15 which extends from the plug 9 to the shoulder 22 defining the channel 17 from the channel 19 and is provided with a longitudinally extending recess 23 to receive the longitudinally extending pin 24 projecting rearwardly from the plug 9 adjacent the stem 10. When the recess 23 so receives the pin 24, the spiral driver 15 is anchored against rotation relative to the cap 8 and enables the cap 8 when manipulated to rotate the driver 15 relative to the barrel 1. The driver 15 receives the conventional shoe 16 which has a tubular portion 25 provided with a fixed outwardly extending tooth or projection 26. In the tubular portion 25 there is slidably mounted the rod 27 which has a tooth 28 similar to the tooth 26 extending through and slidably mounted in the axially extending slot 29 formed in the shoe 16. As per convention, the teeth 26 and 28 are positioned in adjacent passage portions of the spiral opening 30 in the driver 15 and as the driver 15 is rotated relative to the barrel 1 in a clockwise direction, the shoe 15 is advanced forwardly until the tooth 26 rests in the portion of the recess 18 extending from the narrow channel 19. Thereupon as the rotation of the cap 8 and driver 15 continue, the tooth 28 will ride up adjacent the tooth 26 when the rod 27 will eject the coloring stem or remaining portion of the coloring stem 11 from the front end of the portion 3.

In order to anchor the spiral driver 15 against accidental displacement after the coloring stem 11 has been projected a sufficient distance for use, the spiral driver 15 composed of a yieldable metal such as brass is bent or deflected slightly as shown at 31 in FIG. 1 as a result of which bend, the driver 15 will frictionally hug the inner face of the channel 17 and anchor the coloring stem 11 in place while being used.

According to convention during use the rear end of the coloring stem 11 will be frictionally forced into the front end of the portion 25 of the shoe 6 and so remain until the rod 27 is advanced to eject the same.

With the conventional eyebrow pencils heretofore in use, with which a plug such as the plug 9, was soldered to a spiral driver such as the spiral driver 15, the plug had to be a screw machine item and the plug had to be inserted into a cap such as the cap 8 before the spiral driver was soldered thereto thereby occasioning a decidedly greater cost than the cost of the one piece zinc die casting of the plug 9 and stem 10 used in the present application having the recess 23 and pin 24 in communication between the plug 9 and spiral driver 15.

Furthermore, with the conventional eyebrow pencils heretofore in use, in order to effect a frictional contact with the inner wall of a barrel such as the barrel 1, the spiral driver such as the spiral driver 15, was made slightly longer than the distance between a plug such as the plug 9 and a shoulder such as the shoulder 22 of the barrel 1 to cause the spiral driver to bend slightly when a barrel such as the barrel 1 was secured to a cap such as the cap 8. However, whether the spiral driver

15 was bent by the old method or deliberately bent before being inserted in the barrel 1 according to the new method, if the spiral driver 15 was soldered to the plug 9, a constant strain would be exercised on this soldered connection resulting in the, not infrequent, fracture of the connection between the plug 9 and driver 15 and the consequent inability of a cap such as the cap 8 to turn the driver 15. With the present construction on the other hand, due to the length of the recess 23, about $\frac{3}{32}$ of an inch for an implement about 4 inches long, when the length of the spiral driver 15 approximates the distance between the shoulder 22 and the plug 9, the spiral driver 15 would be positively anchored against becoming dislodged from the plug 9 notwithstanding the strain put on the spiral driver 15 by the frictional contact of the same with the inner wall of the channel 17 by the bend 31 in the driver 15.

The length Y of the limiting stem 12 illustrated in FIG. 4 as compared to the length X of the limiting stem 10 illustrated in FIG. 2 is of course merely indicative of two sizes of a great many depending upon the design of the manufacturer and the purported use of the particular implement.

Excellent results have been achieved when the tubular portion 25 of the shoe with the projection 26 is composed of brass and the rod 27 and tooth 28 are integral with one another and composed of a zinc die casting.

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

In a marking device, the combination of a barrel, a rear cap having a plug secured therein, a main stem extending forwardly from the center of said plug concentric with the axis of said plug, said barrel having a main large channel, a narrow channel, and an intermediate

channel, said channels being concentric to one another with a first annular shoulder defining said main channel from said intermediate channel and a second annular shoulder defining said intermediate channel from said narrow channel, a spiral driver disposed in said channel between said plug and said first shoulder, said stem entering and centering said spiral, means including a pin extending longitudinally from the front face of said plug and a longitudinally extending slot on the rear end of said driver receiving said pin anchoring said spiral driver to rotate with said caps relative to said barrel, means anchoring said cap against longitudinal movement while permitting rotation of said cap relative to said barrel, an ejecting shoe rotatably mounted in, and controlled by, said spiral driver between said main stem and said first shoulder, and a marking stem mounted in, and controlled by, said shoe to move into and out of the front end of said narrow channel, said spiral driver being formed into a longitudinally extending arc by a bend in said spiral driver, to effect frictional contact between said spiral driver and the interior of said barrel to stabilize said barrel relative to said cap when turning the cap relative to said barrel.

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