

Feb. 7, 1939.

J. W. WELSH

2,146,609

WRITING INSTRUMENT

Filed Aug. 12, 1938

Fig. 1.

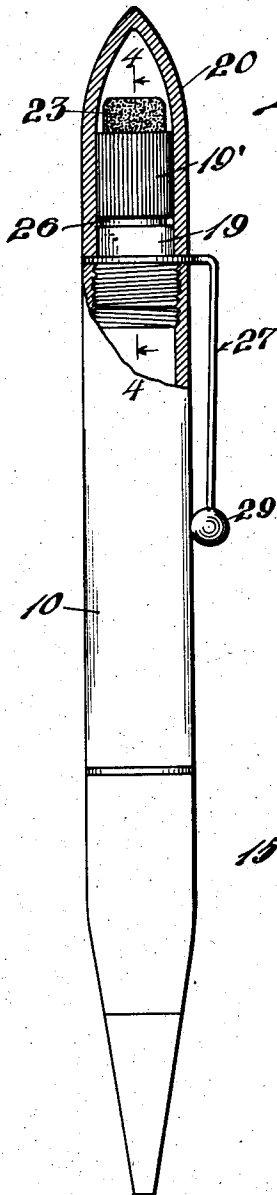


Fig. 2.

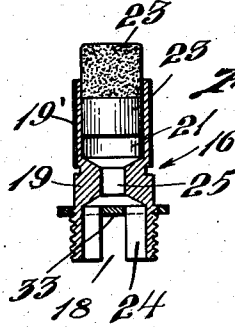
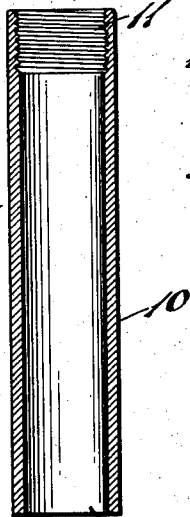


Fig. 4.

Fig. 5.

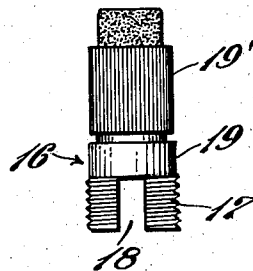


Fig. 5.

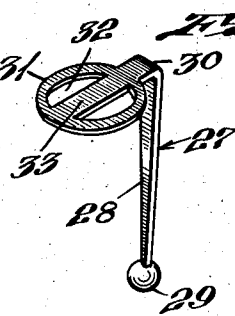
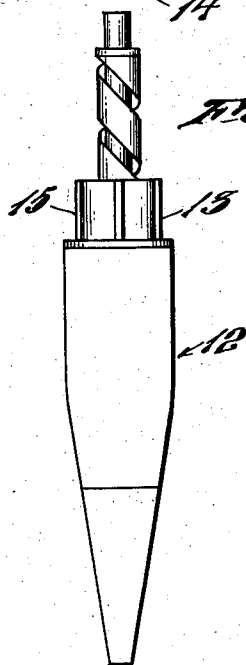


Fig. 6.



INVENTOR.
James W. Welsh
BY *Barlow & Barlow*
ATTORNEYS.

UNITED STATES PATENT OFFICE

2,146,609

WRITING INSTRUMENT

James W. Welsh, Providence, R. I., assignor to
Welsh Manufacturing Company, a corporation
of Rhode Island

Application August 12, 1938, Serial No. 224,450

6 Claims. (Cl. 24—11)

This invention relates to a writing instrument and more particularly to the relation of the clip to the writing instrument, and the invention has for one of its objects to provide a combination bushing and clip so arranged that one assists in the positioning of the other in place.

Another object of the invention is to so arrange the construction of the bushing and clip that each may be simplified in its construction and yet the two will so cooperate as to assist in positioning the other in the desired relation.

Another object of the invention is to provide a clip which will be held in place and against rotation by the screwing of the bushing into the barrel.

Another object of the invention is to provide a clip which will limit the insertion of the bushing into the barrel and make unnecessary flanges or other abutting surfaces which are usually provided for this purpose.

Another object of the invention is to provide a clip which will permit the clip and other metal parts to be easily withdrawn or removed from the barrel for ornamenting or printing the barrel as is desired.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described, and particularly pointed out in the appended claims.

In the accompanying drawing:

Fig. 1 is an elevation, partly in section, showing the pencil with my clip and bushing arrangement therein;

Fig. 2 is a sectional view of the barrel alone;

Fig. 3 is an elevation of a point end movement for the barrel;

Fig. 4 is a sectional view of the bushing and portion of my clip in position thereon;

Fig. 5 is an elevation of the bushing;

Fig. 6 is a perspective view of the clip alone.

It frequently occurs that when pencils are shipped to some customers such as one in the advertising business that it is desirable to additionally print the pencil with the name of the advertising concern or in some other way lacquer or treat the non-metallic barrel of the pencil. Such treatment usually requires the removal of all metal parts and where a clip is riveted to the barrel of the pencil the clip cannot be removed by the printer and either reshipment is necessary or an assembly operation with tools which is not desirable. Further, it is desirable in the use of clips on pencils that the clips be located in a definite position on the pencil so that they cannot revolve or rotate about the barrel of the pencil

and in the construction which I here show, both of these difficulties are overcome and I have a clip which is located in a definite position on the barrel and one which may be easily removed; and the following is a more detailed description of the present embodiment of this invention, illustrating the preferred means by which these advantageous results may be accomplished:

With reference to the drawing, 10 designates the barrel of the pencil which is threaded as at 11, on the inner surface of the bore thereof at one end. The point end movement which is designated generally 12 consists of the usual mechanical movement for advancing or retracting the lead in the pencil. The friction bushing 13 of this point end movement snugly fits the bore at the end 14 of the barrel 10 to hold the same firmly in position in the barrel. Ribs such as 15 assist by being embedded in the surface of the bore at 14 in holding the parts securely.

A bushing designated generally 16 is positioned in the threaded end 11 of the barrel. This bushing is usually of one piece of material and is a screw machine product. It consists of a threaded portion 17 at one end with a slot 18 extending longitudinally of this bushing at this end while the portion above the slot as at 19 is left smooth and a portion 19' at the other end of the bush is knurled on its outer surface so as to present a greater friction surface for the reception and retaining of a cap 20 which may fit thereover. A recess 26 separates the knurled portion and the smooth portion 19. A bore 21 is provided in the knurled end of the bushing for the reception of an eraser 22 which is held in a metal cup 23 while the other end of the bushing has a bore 24 for the purpose of lightness of construction and passage of leads therethrough. These bores may be connected by narrow opening 25 for the purpose of receiving leads through this bore 25 and 24 when the eraser is removed.

The clip 27, as best illustrated in Fig. 6 consists of an arm 28 with an enlarged end, usually in the form of a ball 29. The upper portion of the clip is bent inwardly at substantially right angles as at 30 and consists of a ring-like annulus cut out as at 32 to receive the threaded portion of bushing while a tongue 33 extends across the opening 32 and is of a size to fit within slot 18. When this clip is positioned with the tongue in the slot in the bushing and the bushing threaded into the barrel 10 the slot and tongue prevents relative movement of the clip and bushing while also limiting the insertion of the bushing into the barrel and thus when this bushing is turned up

snugly, the clip is held firmly in position on the barrel by reason of the engagement and relative arrangement of these three parts. A reverse rotation is all that is necessary to remove the clip from the barrel while re-assembly may be had without tools and yet all parts are firmly held in position.

The foregoing description is directed solely towards the construction illustrated, but I desire it to be understood that I reserve the privilege of resorting to all the mechanical changes to which the device is susceptible, the invention being defined and limited only by the terms of the appended claims.

15 I claim:

1. In a writing instrument a barrel, a bushing in the end of the barrel and provided with a slot therein, a one-piece clip having an arm to extend along the barrel, with a portion to embrace the bushing and a portion to extend into said slot and engage the end of the barrel to prevent relative rotation of the clip and bushing and to limit the movement of the bushing into the barrel, said extending portion being flush with the surface of the portion embracing the bushing.

25 2. In a writing instrument a barrel, a bushing in the end of the barrel, having a longitudinally extending slot, a clip having an arm to extend along the barrel with a portion having an opening to receive the bushing and a tongue to extend into said slot.

30 3. In a writing instrument a barrel having a threaded bore at one end, a bushing having an external threaded surface to fit said bore and a longitudinally extending slot in said bushing from one end, a clip having an arm to extend along the outer surface of said barrel and a portion

to extend about said bushing in said slot and across the end of said barrel to engage the end surface of the barrel and limit the movement of the bushing into the barrel.

4. In a writing instrument a barrel having a bore, a bushing of a size to fit in the end of the bore of the barrel and engage and hold the bushing in position, a clip having an arm to extend along the barrel with a portion to embrace the bushing and a portion extending from the inner edge of the embracing portion into the bushing intermediate its ends to limit the insertion of the bushing into the barrel.

5. In a writing instrument a tubular barrel, a bushing detachably secured in said barrel having a portion extending beyond the end thereof, a clip having an arm to extend along the barrel and a portion to embrace the bushing and extend therefrom to provide an abutment for a cap, said clip having a portion to extend into the bushing to limit the insertion of the bushing into the barrel.

6. In a writing instrument, a tubular barrel, a bushing detachably secured in said barrel and having a portion extending beyond the end of the barrel of less diameter than the outer diameter of said barrel, a clip having an arm to extend along the barrel and a portion to embrace the bushing and a portion to extend into the bushing to limit the insertion of the bushing into the barrel and a cap removably positioned on said portion of the bushing extending beyond the end of the barrel and having a diameter to provide a surface substantially flush with the outer surface of the barrel.

JAMES W. WELSH.