

July 1, 1930.

F. C. KROMER, JR
ELECTRIC WAXING PENCIL

1,769,437

Filed July 2, 1929

Fig. 1.

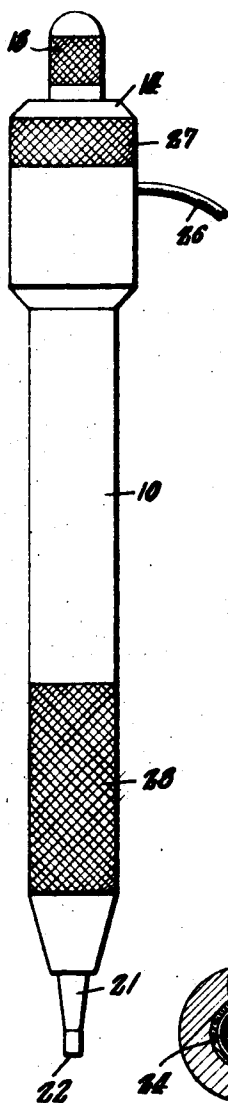


Fig. 2.

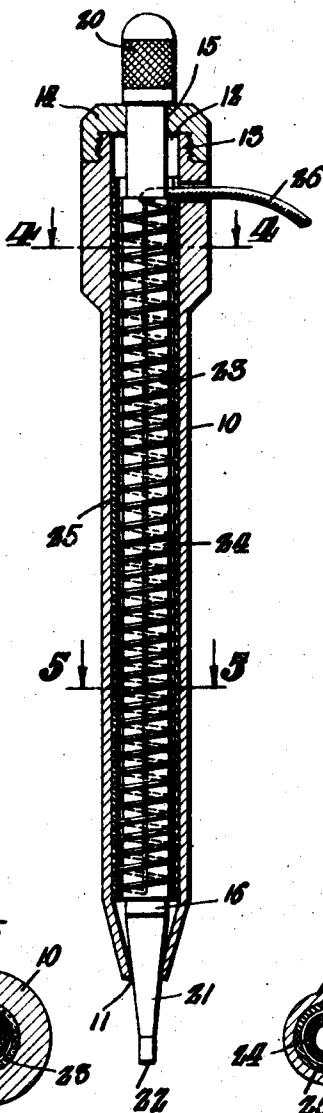


Fig. 3.

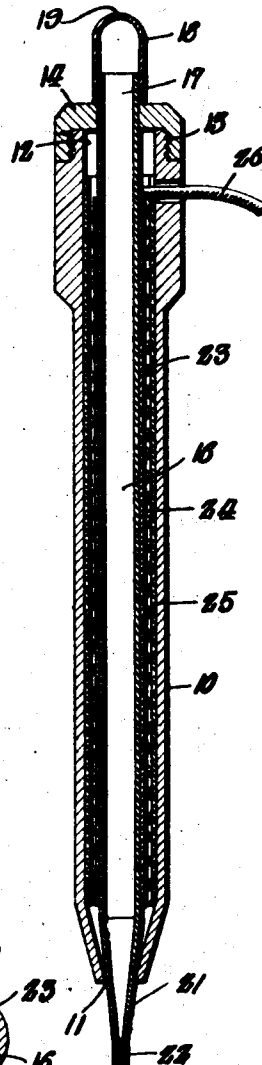


Fig. 4.

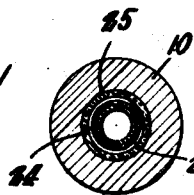
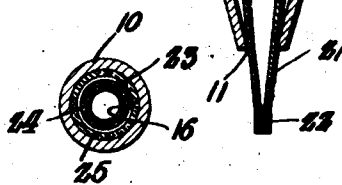


Fig. 5.



Fred C. Kromer, Jr.

INVENTOR

BY *Victor J. Evans*

ATTORNEY

UNITED STATES PATENT OFFICE

FRED C. KROMER, JR., OF SANDUSKY, OHIO

ELECTRIC WAXING PENCIL

Application filed July 2, 1929. Serial No. 375,406.

This invention relates to improvements in pencils, an object of the invention being to provide a pencil for use in batik work, by means of which fine waxed lines may be drawn on the fabric in carrying out the designs.

Another object of the invention is the provision of a waxing pencil in which the wax may be kept at a uniform temperature and in proper condition for use.

Another object of the invention is the provision of a pencil of the above character, by means of which wax may be conveniently and accurately applied without the use of the usual wax kettle and alcohol lamp.

Another object of the invention is the provision of a waxing pencil which may be readily filled for use, and which may be conveniently cleaned and kept in proper working condition.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawing and pointed out in the appended claim.

In the drawing:—

Figure 1 is an elevation of a waxing pencil constructed in accordance with the invention.

Figure 2 is a longitudinal sectional view with the wax container in elevation.

Figure 3 is a longitudinal sectional view with the wax container in section.

Figures 4 and 5 are sections taken respectively on the lines 4—4 and 5—5 of Figure 2.

Referring to the drawings in detail wherein like characters of reference denote corresponding parts, the reference character 10 indicates the outer shell or housing of the pencil which is preferably formed of bakelite or other insulating material. One end of the shell is tapered and is provided with an opening 11, while the walls at the opposite end are relatively thick with the opening 12 at this end of the pencil surrounded by an exteriorly tapered flange 13. This end of the pencil is closed by a cap 14 and the latter is provided with an opening 15.

Positioned within the shell 10 is a tubular member 16 which provides a container for

wax, the latter being inserted through the open end 17 of this container which extends through the opening 15 of the cap. The container 16 is closed at this end by means of a removable cap 18 and this cap is provided with an opening 19 which provides a vent. The outer surface of the cap is knurled as at 20 to facilitate its removal from and replacement upon the end of the container 16.

The opposite end of the container 16 is tapered as shown at 21 and extends through the opening 11, while the outer extremity is provided with a restricted discharge opening 22 for the passage of melted wax.

For the purpose of melting the wax within the container 16, the invention provides an electric heating element or coil 23. This coil surrounds the container 16 and interposed between the coil and container is an insulating sleeve 24. Current will thus be prevented from reaching the container 17, although heat may be supplied to melt the wax. An asbestos or other insulating sleeve 25 is interposed between the coil and the shell 10. A conductor wire 26 connects with the coil and this wire may be provided with suitable means for connection with a source of current.

It is preferred to provide the cap 14 with a knurled portion 27 to facilitate its removal and replacement, while the shell 10 is also preferably knurled as at 28 so as to provide more convenient gripping means.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claim.

Having described the invention what is claimed is:—

A waxing pencil comprising a tubular barrel having a conical end, a cap removably fitted to the other end of the barrel and having an axially located opening therein, a wax receiving tube disposed within the barrel in axial alinement therewith, the said tube having a tapered conical lower end fitting within the conical end of the barrel and extending beyond the same and terminating in a cylindrical, tubular marking tip, the upper end of

the tube fitting through the opening in the
said cap and extending above the cap, a hol-
low cap fitted to the upper end of the tube
and having a vent opening therein, for the
admission of air to the tube above the wax
5 therein, a sleeve of electrical insulating ma-
terial fitting and surrounding the tube, an
electric resistance heating coil arranged
about the insulating sleeve, a current conduc-
tor leading through the first mentioned cap
10 and connected with the coil, and a heat insu-
lating sleeve surrounding the coil and spacing
the same from the wall of the barrel.

In testimony whereof I affix my signature.

FRED C. KROMER, Jr.

15

20

25

30

35

40

45

50

55

60

65