Feb. 2, 1932. C. KAISER 1,843,233

DISPLAY AND DISPENSING CABINET

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FIG.1.

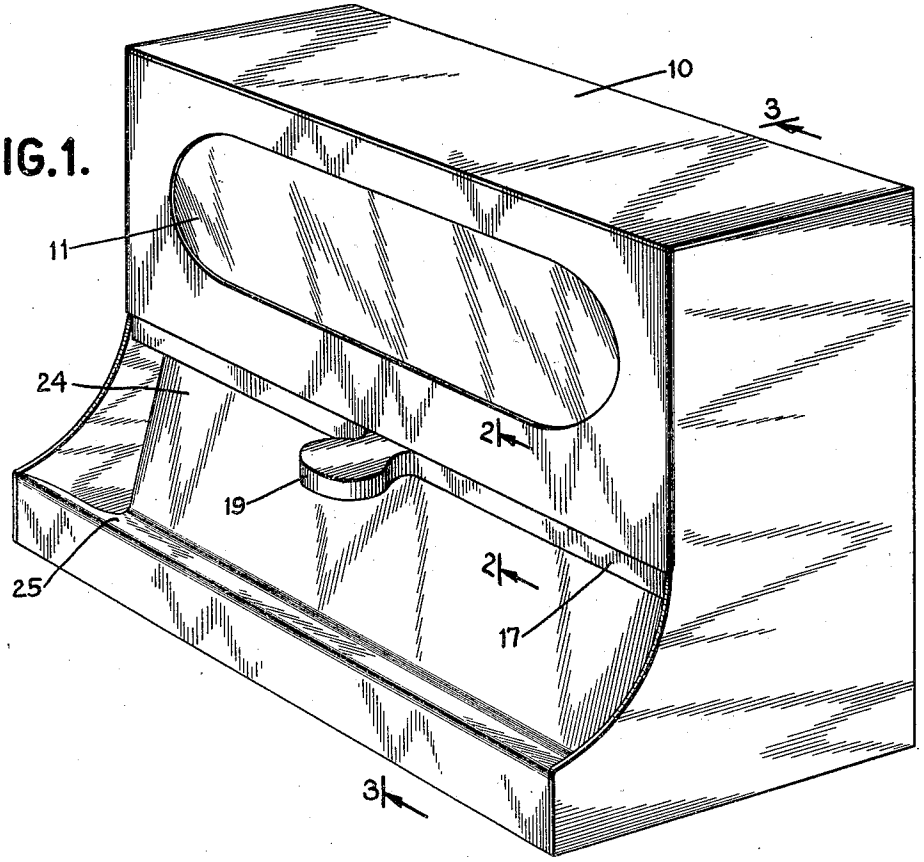
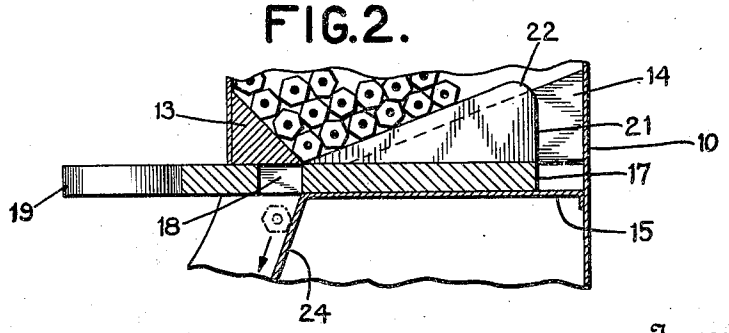


FIG.2.



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FIG. 3.

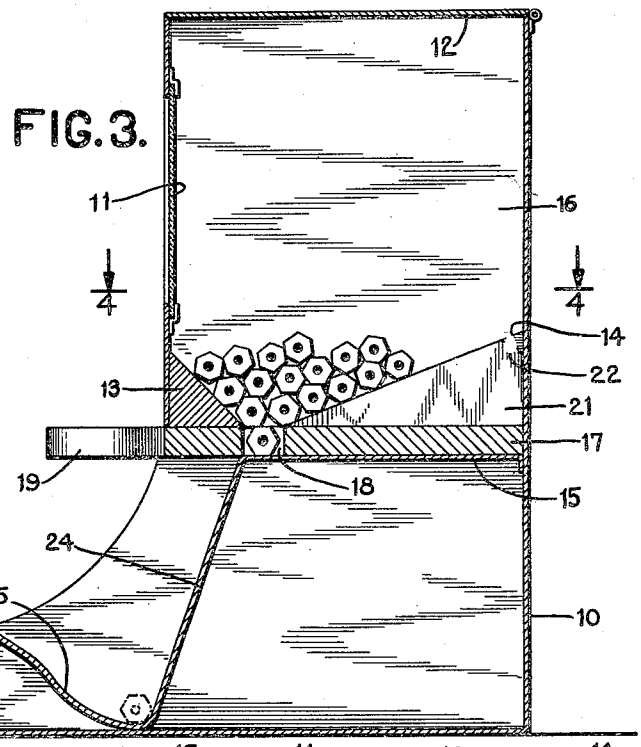
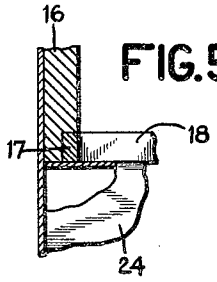


FIG. 5.



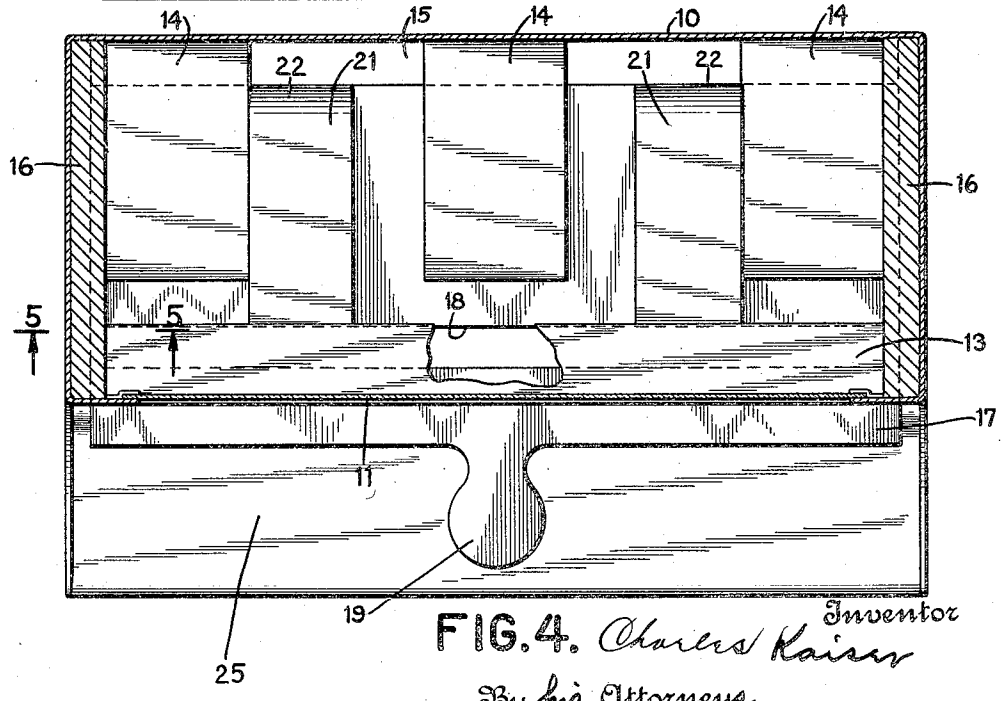


FIG. 4.

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UNITED STATES PATENT OFFICE

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DISPLAY AND DISPENSING CABINET

Application filed February 2, 1929. Serial No. 337,131.

This invention relates generally to display and dispensing apparatuses and has particular reference to devices of that character which are suitable for displaying and dispensing lead pencils and the like.

An object of the invention is to provide a display and dispensing apparatus for pencils and the like which will aid in preventing theft or loss of the pencils and which will, at the same time, permit quick delivery of pencils by a clerk or other operator.

Another object of the invention is to provide a device of the character stated, which is simple in construction and can be produced at a minimum cost.

Another object is to provide a dispensing apparatus so constructed as to insure the delivery of a pencil at each delivering operation, this result being effected by devices which will shake up or jostle the stock of pencils to straighten them and position one of them ready for delivery at the subsequent operation of the delivery mechanism.

With the foregoing and other objects in view the invention consists in a novel construction and relation of parts, the novel features of which are pointed out in the appended claim and a preferred embodiment of which is hereinafter described with reference to the drawings accompanying and forming a part of this specification.

In said drawings:

Fig. 1 is a perspective view showing the front and one end of the display and dispensing apparatus.

Fig. 2 is a section on the line 2—2 of Fig. 1 and shows the delivery mechanism in the operated position, that is the position which the parts assume when the pencil is being delivered.

Fig. 3 is a vertical cross-section on the line 3—3 of Fig. 1.

Fig. 4 is a section on the line 4—4 of Fig. 3 and shows the pencil delivering parts in the same position as in Fig. 2.

Fig. 5 is a section on the line 5—5 of Fig. 4.

Stated in general terms the apparatus of the drawings comprises a compartment which may be of any size depending upon the number of pencils which it is to contain. One or more walls of this compartment may be made of or contain portions of transparent material through which the contents of the compartment may be seen. The bottom of the compartment is so constructed as to form supports having surfaces inclined downwardly to a point where the pencils leave the compartment. These supports are of such shape and length and are relatively so positioned as to leave a space slightly wider than the thickness of the pencil through which the pencils can drop to the feeding apparatus.

The feeding apparatus comprises a slide which can be given a reciprocatory movement in suitable supports and which carries a slot long enough and wide enough to receive a single pencil. When the slide is drawn out the pencil in the slot will be withdrawn to a position where it can drop into a suitable receiver, from which it can be manually removed.

The supports for the supply of pencils above mentioned, include members which are attached to the casing and are of such a width as to accommodate between them members attached to the delivery slide, and which have their tops inclined toward the pencil exit on about the same angle as the stationary supports. When the delivery slide is operated to withdraw a pencil, these members will move with the slide and act to jostle the supply of pencils and straighten the lower ones so that when the delivery slide is returned to its inner or normal position, a pencil will drop into the slot in the slide ready for delivery at the next operation of the slide.

Describing the device in detail and with reference to the drawings, the casing 10, Fig. 1, may be made of any suitable material and any of the walls of the upper part of the casing may be provided with transparent windows, such as the one shown at 11 in the front of the casing, to permit examination of the contents. The compartment may, if desired, be provided with a hinge or removable top 12, Fig. 3, to permit conveniently introducing a new supply of pencils. Across the lower front of the compartment is a member 13 attached to the casing and having

its inner wall inclined as shown. Attached to the rear wall of the casing are three members 14 which project forward and have their upper or pencil supporting surfaces inclined downward and forward. These members 13 and 14 are of such dimensions as to leave between them an opening of sufficient length and width to allow pencils to pass from the supply compartment one at a time.

Slidably mounted on a support 15 and in side members 16, attached to the casing 10, is a member 17 containing a slot 18 of sufficient width and length to receive a single pencil when the slide is in the position shown in Fig. 3, that position being the one referred to herein and in the claim as the normal position. The slide is provided with a tab or handle 19 by which the slide may be reciprocated in its supports.

Attached to the upper surface of the slide are two members 21 having their upper surfaces inclined on the same angle as the upper surfaces of the stationary members 14. The members 21 have their rear corners 22 rounded and their front edges or ends terminate in alignment with the stationary members 14 when the slide 17 is in normal position, but these front ends of the members 21 cooperate with the lower edge of the inclined surface of the member 13 to arrest movement of the slide when the slide is drawn outward. This arrested position of the slide is illustrated in Figs. 2 and 4. As shown particularly in Fig. 2 when the slide 17 is drawn forward, the members 21 will act to lift or jostle the supply of pencils and their inclined tops will cooperate with the inclined top of the member 13 to position a pencil ready to drop into the slot 18 when the slide is returned to its inner or normal position, thereby insuring the presence of a pencil in the slot 18 ready for delivery at the next operation of the slide. During this return movement of the slide the curved surface 22 of the members 21 will raise any pencils which may be in their paths, thereby preventing interference by a pencil with the return movement of the slide and at the same time contributing to the jostling or straightening of the pencils in the lower part of the compartment.

The receiver for a delivered or ejected pencil may be of any desired configuration, but the one illustrated in Figs. 1 and 3 has proved to be highly satisfactory. It consists of inclined portions 24 and 25 forming a receptacle from which a pencil may readily be removed.

While the embodiment shown and described herein is admirably adapted to fulfill the purpose primarily stated, it is apparent that the ideas are capable of various embodiments with suitable modifications and changes all coming within the scope of the claim which follows.

What is claimed is:

In a device of the character described, a receptacle for a supply of pencils, a member containing a slot constructed to receive a single pencil and movable to carry out of the receptacle a pencil contained in said slot, a plate below and cooperating with said member to support the pencil in the slot until the pencil has been carried clear of the receptacle and said plate, front and rear stationary guides having inclined faces converging to direct the pencils toward the slot in the member, and guides on the movable member having inclined faces flush with the inclined faces of the rear stationary guides when said member is in position for a pencil to enter the slot in the member.

In testimony whereof I hereto affix my signature.

CHARLES KAISER.