Dec. 3, 1929. A. KINZINGER 1,737,798

PENCIL HOLDER FOR LEADS OF DIFFERENT KIND, THICKNESS, OR COLOR

Filed Dec. 28, 1927

Fig. 1.

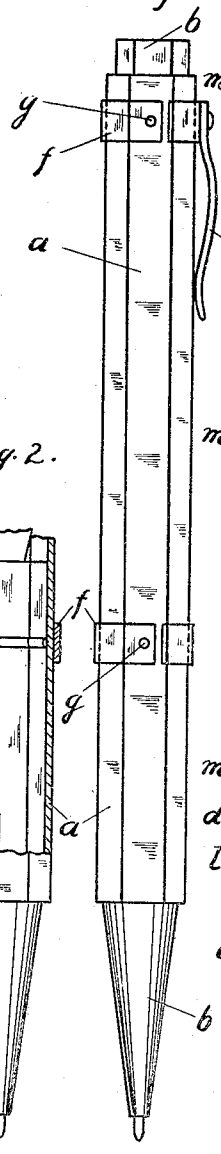


Fig. 3.

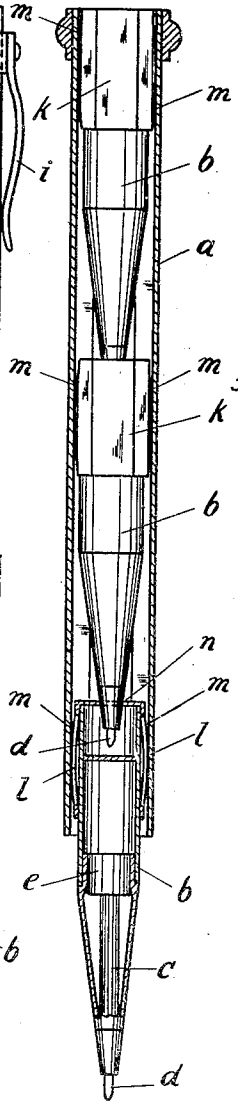


Fig. 2.

Fig. 4.

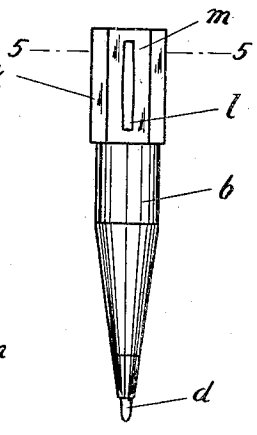
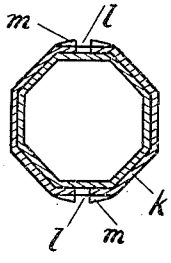


Fig. 5.



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UNITED STATES PATENT OFFICE

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PENCIL HOLDER FOR LEADS OF DIFFERENT KIND, THICKNESS, OR COLOR

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As for persons, who use for writing and drawing pencils or leads of different kind or different thickness or color, it is very convenient to have all these leads united in one single holder and arranged so that any desired lead can be made to project through the conical point of the casing, a number of mechanical arrangements have been invented, which solve this problem in a more or less perfect manner.

All such arrangements, which have been hitherto proposed, present the inconvenience that the mechanism is complicated and, this mechanism being restricted to a very small place so that the several elements of the same cannot be very strong, the function of the instrument becomes defective after a short time of use and the more rapidly the more difficult it is for persons unskilled in the art to correctly adjust the complicated mechanism in accordance with the directions for use.

This invention relates to a pencil-holder in which leads of different kinds, hardness, thickness or colors are united so that any one of the same can be made to project from the point. The mechanism of this improved pencil-holder is however so simple that the inconveniences, connected with the propelling pencils of known type are absolutely avoided.

The novelty consists in that a number of independent pencils or lead-holders are mounted in a tubular casing open at both ends, the one behind the other so that they can be removed through the open front- or rear-end of the casing, being however secured against dropping out accidentally. The means which prevent the accidental shifting of the pencils in the tubular casing, for instance when the instrument is being used, may be constructed in many different manners.

An embodiment of the invention is illustrated by way of example, in the accompanying drawing, which shows two different forms of construction of the means preventing accidental shifting of the pencils.

Fig. 1 shows the pencil-holder in elevation.

Fig. 2 shows the front portion of the pencil-holder in elevation, partly in longitudinal section with a resilient braking nose.

Fig. 3 is a longitudinal section through the pencil-holder.

Fig. 4 shows one of the pencils with elastic sliding walls.

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

In the tubular casing *a*, which is shown as being of octagonal cross-section, several pencil holders *b* are inserted, the one behind the other, each pencil holder comprising a guide-tube *c* for a lead *d*. The casing *a* might be of hexagonal, oval or any other desired cross-section, and it can be made of metal, wood, artificial horn, celluloid or other suitable material. Neither the individual pencil-holders nor the guide-tube *c* for the lead *d* nor a mechanical propelling device *e*, which might be arranged in the pencil-holder *b* for pushing the lead *d*, forms the object of this invention. Any mechanisms of known type, for example a screw-mechanism, may be used for holding, guiding and propelling the lead *d*.

The pencils *b* are located in the casing *a* all in the same direction so that the leads *d* point to the front-end of the instrument.

In Fig. 3 three pencils are shown, but any other number of pencils two, five, four or more may be located in the casing *a*, all these pencils being preferably of the same length. The total length of all the pencils together when inserted the one in the other is such that the lead of the pencil *b* which has actually to be used, projects from the point of the casing, the rear end of the rearmost pencil holder being either flush with the rear-end of the casing *a* or projecting from the same very little so that it is securely held in the casing *a*.

In Fig. 3 the rear end of the rearmost pencil *b* is flush with the rear-end of the casing *a*, while in Fig. 1 it slightly projects from the rear-end of the casing.

To prevent accidental shifting, specially when the instrument is being used for writing, the pencil holders *b* are securely held in the casing *a* so that they can slide only under stronger pressure, special holding means being provided to ensure that the resistance against, accidental displacement remains uniform.

Figs. 1 and 2 show as holding means a brake-nose *g*, controlled by a spring *f* and

projecting through a hole into the casing *a*, the rounded end of said brake-nose engaging with a circumferential groove *h* which is provided in the rear-end of each pencil holder *b*. Such a brake-nose is arranged at the rear end and at a certain distance behind the front end of the casing *a* to secure in their position the rear and front-pencil holders *b*, respectively to prevent accidental shifting of the same. A clip *i* may be fixed on the spring *f* of the rear holding device.

Figs. 3 to 5 show another means for preventing accidental shifting of the pencil holders *b*. Several of the faces of the rear-portion *k* of each pencil holder have each a longitudinal slot *l* these faces *m* being bulged outward, as shown in Fig. 5, so that they are pressed elastically against the inner surface of the casing *a*. The friction-resistance, produced in this manner, prevents accidental shifting of the pencil holders during writing.

The outwardly bulged faces *m* are preferably arranged on two opposite sides of the pencil holder so that the lead *d* is always situated in the central line of the casing.

When the middle pencil holder *b* has to be used the front-pencil holder has to be removed through the open front end of the casing and to be inserted into the open rear-end of the casing *a* with a certain pressure and pushed into the casing *a*, until the middle pencil holder *b* which is now the front pencil holder, has assumed the correct writing position.

When the rear-pencil holder has to be used for writing, the front-pencil holder is slightly pushed back so that the rear-pencil holder projects from the rear-end of the casing, and can be pulled out to be inserted into the front-end of the casing *a* so that it pushes back the other pencil holders in the casing. When there are more than three pencil holders in the casing *a*, any of the pencil holders may be brought into the position for writing by removing the front-pencil holder, inserting the same into the rear-end of the casing, removing the next following pencil holder which is then the front pencil holder, inserting the same into the rear-end of the casing and so forth until the desired pencil holder is in the position for writing.

In the bottom-plate of each pencil holder *b* a hole *n* is arranged through which the point of the next following pencil holder projects so that the projecting lead *d* is protected against damaging.

I claim:—

1. An instrument for writing, comprising a tubular casing of polygonal cross-section open at both ends, a number of propelling pencils placed one behind the other in said casing and consisting each of a casing and of a propelling mechanism of known type for propelling a lead said mechanism leaving a vacant portion at the rear end of said casing, a bottom plate closing the casing of the propelling pencil and having a large hole to allow the point of the lead of the next following propelling pencil to occupy said vacant space, and a resistance on each propelling pencil to prevent accidental shifting of the propelling pencil in said casing.

2. An instrument for writing as specified in claim 1, in which each pencil holder has a resilient sliding wall designed to serve as resistance means.

3. An instrument for writing as specified in claim 1, in which each pencil holder has a resilient sliding wall designed to serve as resistance means said sliding wall being bulged outward and having a longitudinal slot in the bulged out portion.

4. An instrument for writing as specified in claim 1, in which each pencil holder comprises a resilient sliding wall having several longitudinal slots and being bulged outwards at either side of each slot.

In testimony whereof I affix my signature.

ADOLF KINZINGER.