

N^o 1051



A.D. 1911

Date of Application, 14th Jan., 1911—Accepted, 18th May, 1911

COMPLETE SPECIFICATION.

Improvements in Pen Holders.

WE, EDMUND MOSTER and MAVRO MOSTER, of Zagreb, near Agram, in the Province of Kroatien, Manufacturers, do hereby declare the nature of this invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to improvements in pen holders of the type in which the holder is bored out or formed with a cylindrical recess at one end for the reception of the pen, which is secured in the borehole or recess by means of a securing device actuated by a knob projecting laterally from said borehole or recess through the pen-holder.

In pen-holders of the type described it has hitherto been proposed to provide a flexible securing device, which was secured at one end in the bore hole or recess and thereby flexibly positioned, whilst the knob for actuating the same projected laterally from the pen-holder. This arrangement however had the disadvantage that the fastening of the securing part to the holder became loose so that the spring pressure by means of which the writing pen should be securely held, was substantially diminished. The flexible securing part also in the course of time lost its flexibility so that the permanently reliable securing of the writing pen in the holder was disadvantageously affected.

It has also been proposed in such pen-holders to employ a conical securing device loosely fitted in the bore-hole but in this case also the securing device was flexible so as to grip the pen in the holder without the use of other spring means.

It is furthermore well known in pen holders of the type having a metal ferrule to form the latter with depressions so as to give the same an angular cross-sectional form and enable it to retain various form of pens in position therein.

According to the present invention the securing part is itself a rigid and inflexible body so that on being actuated from the exterior by means of the knob it is not gradually rendered useless. Further it is not fastened in any way to the inner part of the penholder but is only held in position by the knob projecting laterally from the holder, so that the securing part forms no spring. This rigid securing part is inserted without fastening in the bore-hole or recess of the pen-holder with the knob projecting through the pen holder, and is held in position in the bore-hole or recess and so as to bear against the pen by means of a spring loosely inserted between the securing part and the wall of the bore-hole or recess.

According to the invention the rigid securing part may be in particular forms or shapes. It may for example be zigzag or inclined formed and with a spring pressing against one shank of the incline or zigzag be inserted in the bore of the pen-holder without fastening with the exception of the projecting knob. On actuating the knob from the exterior the zigzag or inclined formed securing part is tilted against the action of the spring; so that one of the shanks of the securing part is lifted from the inner wall of the bore of the pen holder or

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from a casing inserted therein so that the writing pen can be inserted. In order to prevent the slipping of the securing part during this tilting movement the bore of the pen-holder or the casing inserted therein is provided with a notch at the tilting edge of the zigzag or inclined formed securing part.

All the forms of securing parts hereinbefore described are moreover of angular cross-section, whereby the securing arrangement can be used for various forms of pens which are clamped at more than one part by the securing device. 5

In order that the invention may be more clearly understood, reference is made to the accompanying drawings whereon are shown by way of example different methods of carrying out the invention.

Figure 1 is a vertical section of one form of the pen holder according to the present invention.

Figure 2 is a cross section on the line A—B of Figure 1 and illustrates the angular cross section of the securing part.

Figure 3 shows a view similar to Figure 1 of the pen-holder having a zigzag-shape, and 15

Figure 4 is an inclined formed securing device.

Referring to Figure 1 of the drawings the shaft 1 of the pen-holder is provided with a bore 2 in which is or may be inserted a metal casing 3. A ferrule 4 is fitted over the end of the holder. The casing 3 and shaft 1 are provided at corresponding parts with a slot or opening 5 and 6 respectively. In the casing 3 is loosely inserted a lever 8 provided with an enlarged part or knob 7 and lying close to the inner wall of the casing, the knob 7 being positioned in the openings 5 and 6. By this means the lever is held in position. At the lower end of the lever a transverse notch 10 is provided in which the edge of a blade spring 9 engages, whose middle part rests against the lower part of the wall of the casing and whose free upper end presses the lever 8 against the casing. 20 25

The writing pen may be inserted either in the usual manner by forcing it in between the lever 8 and casing 3 or by depressing the knob of the lever with the finger from the exterior and then inserting the pen, after which the spring 9 is released. By this means the clamping connection between the lever 8 and casing 3 will be loosened and thereafter reinstated. 30

Figure 1 illustrates by dotted lines the position of the lever 8 on depressing the knob.

In order to remove the pen it is sufficient again to press the knob of the lever from the exterior whereby the clamping connection between the lever 8 and casing 3 is loosened and the pen can then fall out by its own weight. 35

The lever 8 is formed in cross section with a number of obtuse angled corners whereby different forms of writing pens can be used in the same holder as all these forms of writing pens will be securely clamped at a plurality or at the least at two points.

The knob 7 also fulfils a particular purpose inasmuch as the writing pen cannot be inserted deeper than the upper shoulder of the knob.

According to the arrangements shown at Figures 3 and 4 the securing parts 11^a or 11^b are loosely inserted in the bore 12 of the pen holder or in a casing 13 provided therein by corresponding inclination until the projecting part 14^a or 14^b projects into a corresponding opening 15 of the casing 13 or in the pen-holder. A spring 16^a or 16^b holds the securing parts 11^a or 11^b in such a position that the knob 14^a or 14^b remains in the opening 15. An outer pressure on the knob 14^a or 14^b depresses the spring 16^a or 16^b. On the outer pressure on the knob 14^a or 14^b the securing part 11^a or 11^b is tilted and at 17^a or 17^b is provided a notch in the bore 12 of the pen holder or in the casing 13 therein, so as to prevent sliding of the securing part 11^a or 11^b during its tilting movement. 40 45

The form of the spring 16^a or 16^b or of the zigzag or inclined formed securing part which grips the pen may be of any suitable form.

According to this invention it is unnecessary to secure the spring of the securing part in any manner, 50

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Having now particularly described and ascertained the nature of our said invention, and in what manner the same is to be performed, we declare that what we claim is:—

1. In a pen-holder of the type in which the holder is bored out or formed with a cylindrical recess at one end for the reception of the pen which is secured in said bore-hole or recess by means of a securing device actuated by a knob projecting laterally therefrom through said pen-holder; a securing device comprising in itself, a rigid and inflexible body loosely inserted in said bore-hole or recess, and only held therein by a knob projecting through the holder.

2. A securing device for pen-holders such as claimed in Claim 1, in which the loosely inserted securing part is held in position by a spring loosely inserted between the securing part and the wall of the bore-hole or recess, substantially as described.

3. A securing device for pen-holders, such as claimed in Claim 1, in which the securing part is of angular cross-section, so that the holder can be used for different sized pens, which may be securely held at more than one point, substantially as described.

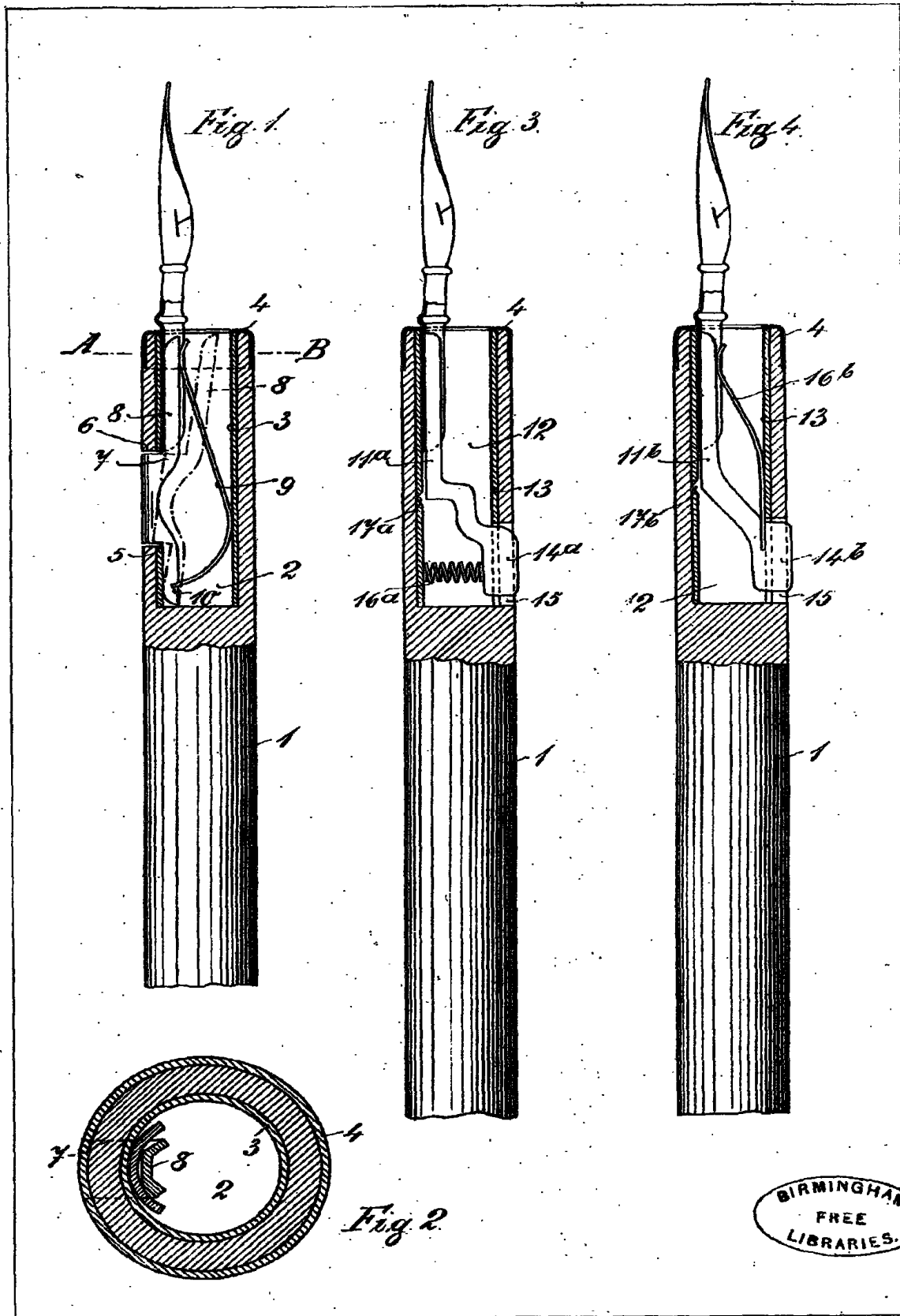
4. A securing device for pen-holders, such as claimed in Claim 1, in which the rigid securing part is of zigzag or inclined form and with a spring pressing against one shank of the incline or zigzag is inserted in the bore of the pen holder without fastening with the exception of the projecting knob, substantially as described.

5. A securing device for pen-holders as claimed in Claim 1, in which the bore of the pen-holder or a casing inserted therein is provided with a notch at the tilting edge of the zigzag or inclined formed securing part in order to prevent slipping of the securing part when the knob is depressed from the exterior, substantially as described.

6. A device for securing pens in pen-holders having its parts constructed, arranged and combined together substantially as described with reference to Figures 1, 2, 3 or 4 of the accompanying drawings.

Dated this 30th day of December, 1910.

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[This Drawing is a reproduction of the Original on a reduced scale.]

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