

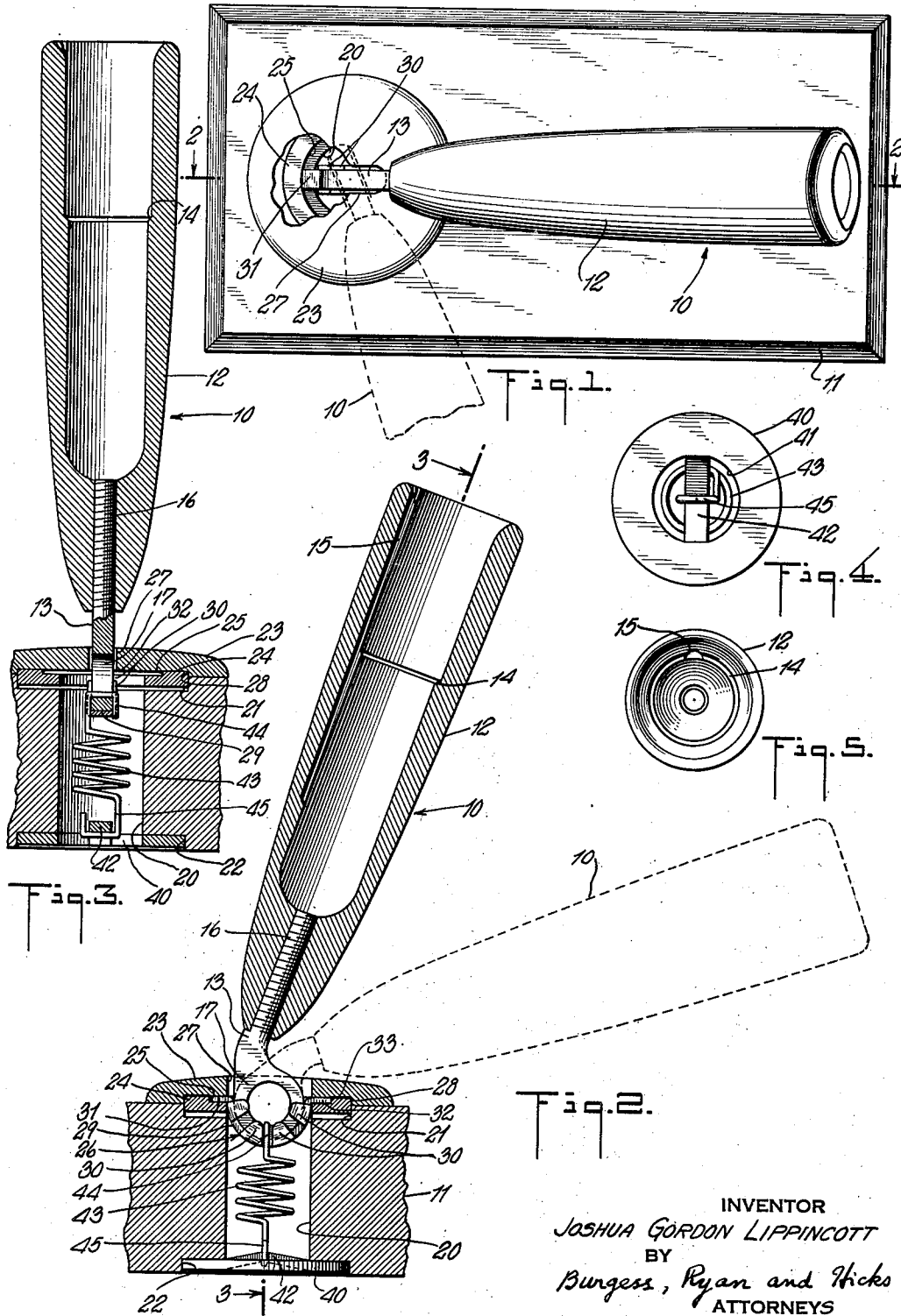
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DESK PEN HOLDER

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DESK PENHOLDER

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1

This invention relates to a desk pen set comprising a base and a pen holder. More particularly, it relates to a desk pen set of the type in which the pen holder is universally adjustable at any desired angle relative to the base and in which the holder is maintained in the desired position through frictional or force-exerting means. Generally speaking, the invention comprises, in combination, a base having seating means thereon for receiving a holder movably supported in the seating means, anchoring means on the base to aid in supporting the holder, and resilient or tension-exerting connecting means for locking both the seating means and the anchoring means to the base and for tensioning the holder to the base so as to provide frictional resistance to pivotal and rotational movement of the holder. Among other advantages, the device may be assembled by the single step of attaching the connecting means which serves to hold the other parts together in their respective assembled positions.

An object of the invention is to provide a desk pen set of the kind described. Other objects and advantages will appear as the description proceeds.

The invention may be more clearly understood by referring to the accompanying drawings in which is shown a preferred form of the invention and in which:

Fig. 1 is a plan view of the device having a portion thereof broken away to reveal the interior construction;

Fig. 2 is an enlarged vertical sectional view taken along the line 2-2 of Fig. 1;

Fig. 3 is a vertical sectional view taken along the line 3-3 of Fig. 2;

Fig. 4 is a bottom view of Fig. 3 in which only the anchoring device and connecting means are shown; and

Fig. 5 is a plan view looking down the open end of the holder of Figs. 1, 2 or 3.

As shown in the drawings, the desk pen set comprises a holder 10 movably supported on a base 11. Holder 10 has a pen retaining portion or receptacle 12 which has an open upper end and a closed lower end. At its closed end the receptacle is provided with a stem or stem portion 13. Receptacle 12 is also provided with a shoulder 14, upon which a pen may rest, and with a longitudinal groove 15 which connects the lower interior portion of the receptacle with the atmosphere. Stem 13 has a threaded portion 16 to which the receptacle is threadedly engaged. The lower end of the stem is curved or circular, be-

2

ing formed into the shape of an annulus or ring-like portion 17.

Base 11, which may be of any desirable shape and material, has a channel or opening 20 there-through which may be counterbored at each end to provide enlarged cavities or counterbores 21 and 22. Over the upper counterbore 21 seating or supporting means are provided for receiving and supporting the holder 10. Such seating means may be in the form of a support or plate member 23, to which is attached an annularly recessed ring 24, an annular groove or recess 25 being formed between the member 23 and ring 24 in which the curved or arcuate seat 26 is supported. The support member 23 may be circular in shape, as shown in Fig. 1, although it may have any other suitable form, and is provided with an opening 27 for receiving the stem portion 13 of holder 10. Member 23 is also provided with a recess 28 on the under side thereof in which the ring 24 is disposed. The seat 26 comprises a curved or arcuate member 29 for receiving the seat engaging member or annulus 17 of holder 10. Member 29 has upstanding guides or ears 30 extending from both edges thereof and at each end is provided with extensions 31, 32 for disposition in groove 25 (Figs. 1 and 2).

The seating means as described may be assembled beforehand by inserting the seat 26 in the annular recess of ring 24 and then fitting the ring and seat into the recess 28 on the under side of support member 23. The ring may then be secured to the support member in any suitable manner, such as by brazing, as indicated at 33. As is evident, the support member is not attached to the surface of base 11 but simply rests and is free to move thereon. The ring 24, by virtue of its attachment to the support member, is held out of contact with the bottom of cavity 21 and is free to move within said cavity. It will also be evident that for practical purposes the support member 23, ring 24, and seat 26 comprise, in their assembled form, a unitary seating means or structure, which is rotatable in the base in a manner hereinafter described. Seat 26, which extends into the opening 20, is free to move therein and is, of course, rotatable with said seating means.

With the seating means assembled as above described, the holder 10 may be pivotally attached thereto by inserting the seat engaging portion or annulus 17 through opening 27 and resting it in seat 26. The guides or ears 30 aid

in retaining the holder in the seat, without, however, preventing rotary movement of the annulus over the curved member 29 of the seat. Thereafter the seating assembly and the attached holder may be secured to base 11. To this end means are provided for tensioning the holder 10 to base 11, as by resiliently connecting the seat engaging portion of the holder to a suitable portion of the base. According to the invention, base 11 is provided with anchoring means to which said tensioning means may be secured. The anchoring means, which also serve to secure the seating means to the base, may be disposed in any suitable position on or in the base, but are preferably located on the side opposite the seating means. In the form shown the anchoring means may comprise a supporting or plate member 40 disposed in the counterbore 22. Preferably the member 40 is circular, and as seen in Fig. 4, it has a circular opening 41 bridged by an inwardly bent bar 42. Member 40 is free to rotate within the counterbore 22. The tensioning and connecting means may suitably comprise a spring, as indicated at 43, having hooked ends 44, 45 for engaging the seating and anchoring means, respectively. End 44 may be hooked over seat 26 and annulus 17, and end 45 may be hooked under the bar 42 of member 40, as shown. By gripping the seating and anchoring means as described, the spring 43 effectively locks them to base 11, biasing them towards each other and restraining them against displacement from their respective counterbores. Coincidentally with such action, spring 43 also resists self movement of the holder in seat 26, such as would result from the mere weight of the holder, by pulling on annulus 17 and thus increasing frictional force encountered by the annulus in moving in the seat. The spring thus keeps the holder in a pivotable and rotatable position relative to the base.

In assembling the desk set, support member 23, ring 24, and seat 26 may be attached as described above, forming an integral seating structure. Holder 10 may then be secured to the seating structure as described, and then the hooked end 44 of spring 43 may be hooked over seat 26 and annulus 17. The resulting assembly can then be positioned in counterbore 21 of base 11, spring 43 being suspended in the opening 20. Hooked end 45 of the spring may be drawn through the opening and hooked over bar 42 of member 40, and the latter then positioned in counterbore 22. As will be apparent, the desk set is assembled by means of the spring, which is the key part, and which serves to retain the set in assembled relation.

The operation of the desk set is simple and may be accomplished by rotating the holder, whether inclined to the base or not, to any desired position about a vertical axis passing through opening 20, as illustrated in Fig. 1 by the dotted and full line positions of the holder. During such rotation, the seating means will also rotate, as will be understood. If the rotation is slight, the spring and the anchoring means may not necessarily rotate, as the spring may simply be coiled or uncoiled as a result of the rotation. However, it will be noted that the spring and anchoring means are rotatable, and if the holder is rotated extensively, they may also be rotated. In addition, the holder may be moved in the seat 26 about a horizontal axis passing through the opening in annulus 17, as shown by the dotted and full line positions of the holder in Fig. 2. By this combination of

movements the holder can be universally adjusted at any desired angle relative to the base.

It will be understood that the invention as described represents a preferred embodiment and that the invention is capable of various modifications within the scope thereof.

In the light of the foregoing description, the following is claimed:

1. In a device of the character described, in combination, a base having an opening therethrough, said opening having a counterbore at each end thereof, a supporting member covering said opening on one side of the base and rotatable in one of said counterbores, said supporting member having a seat attached thereto and extending into said opening, a holder supported on said base, said holder having a curved stem portion resting in said seat and adapted to turn therein, a second supporting member covering said opening on the other side of the base and rotatable in the other of said counterbores, and biasing means connecting said supporting members for retaining the same in their respective counterbores.

2. In a device of the character described, in combination, a base having an opening therethrough, a rotatable supporting member covering said opening on one side of the base, said supporting member having a seat attached thereto and extending into said opening, a holder supported on said base, said holder having a curved stem portion resting in said seat, a second rotatable supporting member covering said opening on the other side of the base, and means connecting said supporting members and rotatable therewith.

3. In a device of the character described, in combination, a base having an opening therethrough, said opening having enlarged upper and lower cavities at each end thereof, a holder supported on said base, an upper plate resting on said base and extending into said upper cavity, said plate being adapted to rotate on said base and in said upper cavity, said plate having an aperture to receive one end of said holder and also having a curved seat disposed beneath said aperture for supporting said holder, said holder end comprising a circular portion adapted to rotate in said seat, said seat having guides for retaining said circular portion therein, a lower plate disposed in said lower cavity and rotatable therein, and tension means in said opening urging said upper and lower plates towards each other.

4. In a device of the character described, in combination, a base having an opening therethrough, said opening having enlarged upper and lower cavities at each end thereof, a holder supported on said base, an upper plate member resting on said base and extending into said upper cavity, said plate member being adapted to rotate on said base and in said upper cavity, said plate member having a seat for receiving one end of said holder, said holder end comprising a ring-like portion adapted to rotate in said seat, a lower plate member disposed in said lower cavity and adapted to rotate therein, and tension means in said opening connecting said upper and lower plate members and urging them towards each other.

5. In a device of the character described, in combination, a base having an opening therethrough, a holder supported on said base, a rotatable upper plate member resting on one side of said base, said plate member having a curved seat extending into said opening, said holder

5

having a curved end portion adapted to rotate in said seat, a rotatable lower plate member disposed on the other side of said base, and tension means in said opening for connecting said curved end portion of the holder to said lower plate member.

6. In a desk pen set comprising a movable holder and a base therefor having an opening therethrough, the combination of seating means resting on the base over one side of said opening for receiving the holder, anchoring means on said base over the other side of said opening, and a tension spring in said opening, said spring having an attaching portion at one end for connecting the same to said anchoring means and also having an attaching portion at the other end for engaging the holder in the seating means, said spring serving to forcibly retain the holder in the seating means and thus provide resistance

6

to the movement of the holder relative to the base.

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