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HOLDER FOR FOUNTAIN PENS

Filed July 8, 1926

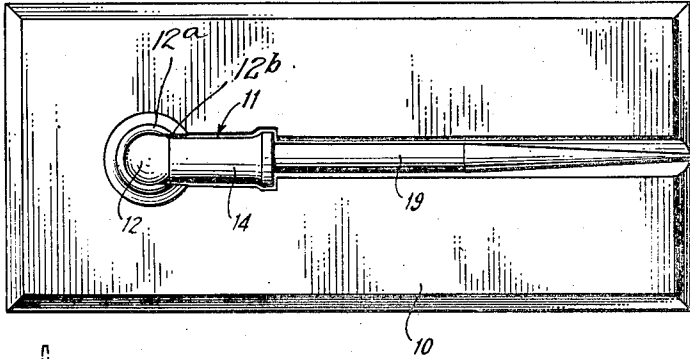


Fig. 1

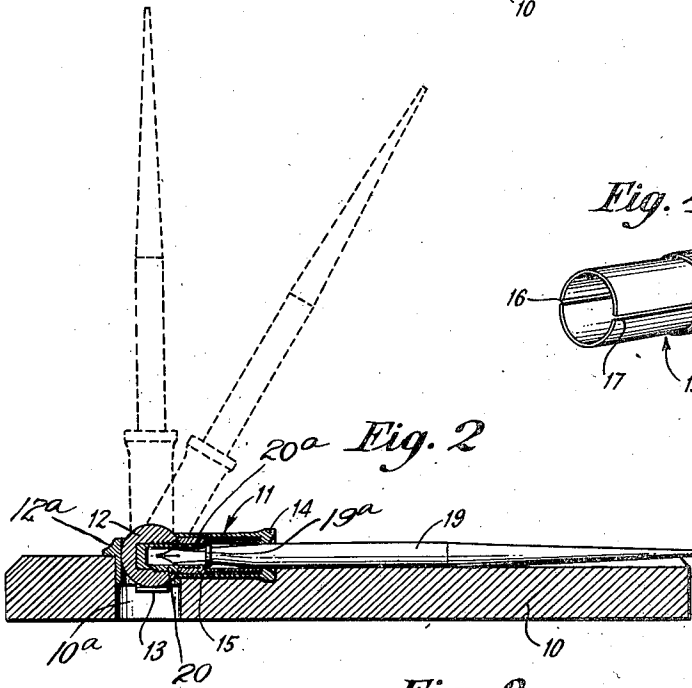


Fig. 2

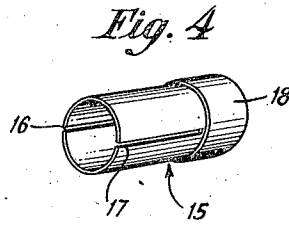


Fig. 4

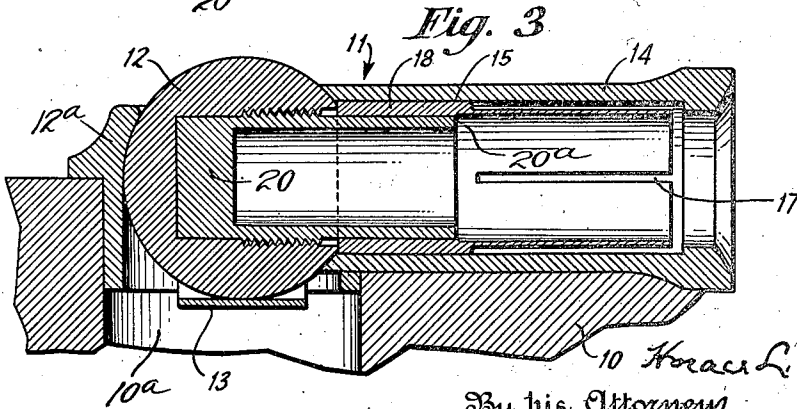


Fig. 3

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HORACE L. BLACKMAN, OF JANESVILLE, WISCONSIN, ASSIGNOR, BY MESNE ASSIGNMENTS, TO PEN DESK SET COMPANY, A CORPORATION OF ILLINOIS.

HOLDER FOR FOUNTAIN PENS.

Application filed July 8, 1926. Serial No. 121,072.

My invention relates to desk set structure embodying means for receiving and supporting a fountain pen, and is an improvement upon the invention disclosed in the application of Walter Guyot, Serial No. 83,857 filed January 26, 1926, for desk set.

It is very desirable in desk set structures that the pen point section of the fountain pen be so received and supported that it is sealed from the atmosphere to at all times maintain the writing point moist so that the pen will always be in writing condition. To accomplish this end it has been proposed to provide a pen receiving-receptacle in which the pen is inserted and which is provided with means cooperating with the lower end of the pen to effect a seal to exclude the atmosphere from the writing point and exposed feeding means. One such arrangement is disclosed in the above-identified Guyot application.

Many desk sets of this general character have the pen-receiving receptacle mounted for swinging movement to different angular positions relative to its support to render the pen readily accessible from any direction and, in some forms, the receptacle may be folded flat upon and substantially parallel with its support, as illustrated in the Guyot application. It will be appreciated that regardless of the angular position to which the receptacle and pen may be swung, it is always desirable that the above-mentioned sealing relation between the pen and its support be maintained.

A further practical requirement in devices of this character is that the pen-receiver be so arranged that the pen may be easily and quickly inserted therein without the danger of damaging the writing point and so that the inserted end of the pen may be guided and held in a centered position in the receptacle to insure the proper sealing of the lower end thereof as above described in any position to which the pen receptacle may be moved.

One of the objects of my invention is to provide a simple and inexpensive, but highly efficient, pen-receiving and supporting structure embodying all of the foregoing desirable features.

Additional and more specific objects are to provide for use in a pen receiving-receptacle having an annular seat arranged coaxially therein and against which the lower end or

shoulder of the pen seats to seal the writing point, means for guiding the pen to its sealed position and for holding it in that sealed position regardless of the angular position to which the receptacle is swung; to provide yieldable gripping means located in the receptacle for tensionally receiving and holding the lower end of the pen in its inserted position, one such means taking the form of a slotted sleeve having an annular unslotted part fixed relative to the receptacle and having its slotted portion extending along the walls of the receptacle and providing circularly arranged yielding fingers engaging the pen at spaced points around its sides to grippingly hold the same in axial alignment in the receptacle; and to provide a pen-gripper of the foregoing character which is adapted to guide the lower end of the pen to its predetermined sealing position and which holds the nib of the pen spaced from the receptacle wall.

My invention further consists of certain details of construction hereinafter set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which

Fig. 1 shows a top, or plan view of a desk set fitted out with my improvement;

Fig. 2 is a side elevation view, partially in section, of the same;

Fig. 3 is an enlarged sectional detail view of my improved pen holding receptacle; and

Fig. 4 is a detail view, in perspective, of the slotted sleeve I employ.

With reference to the structure which I have chosen to illustrate my invention, I provide a base 10 having an opening 10^a therein adapted to receive a socketed support 12^a. The socket of this support receives a ball 12 which carries a pen-holding unit 11. This ball and socket provides for universal adjusting movements of the unit 11 above the base 10, and the support 12^a is provided with a slot 12^b at one side permitting the unit and the pen carried thereby to be adjusted to a substantially horizontal position upon the base 10 as shown in Figs. 1 and 2. A spring 13 is mounted in the opening 10^a of the base in frictional engagement with the ball 12 to tensionally hold the same and the receptacle unit in the position to which it may be adjusted.

The pen-holding unit consists of a pen receptacle 14 which extends outwardly from

the ball 12 and is provided at its outer and open end with a flaring mouth which facilitates entry of the pen therein without danger of injuring the writing point. The ball 12 is provided with a threaded opening which receives the externally threaded tubular member 20. This tubular member is sufficiently long to extend partly within the receptacle so that the writing point of the pen may be received therein. The upper edge of this member provides an annular concentric seat 20^a of substantial width against which the lower end or shoulder 19^a of the fountain pen 19 seats to confine the writing point of the pen in the bore of this tubular member to seal the same from the atmosphere.

The diameter of the sealing member 20 is less than that of the receptacle 14 providing an annular channel or recess between the receptacle and the adjacent wall of the sealing member in which the base portion 18 of a slotted sleeve 15 is received. The receptacle 14, sleeve 15 and sealing member 20 are all frictionally engaged, (or they may be positively fastened together) to hold such parts fixed as a unit upon the ball 12. The sleeve 15 is slotted longitudinally, as at 16 and 17 (Fig. 4) and has its slotted portion smaller in diameter than its base 18. By so slotting the sleeve, and by reducing the outside diameter of the slotted part, it is obvious that I provide a plurality of yielding fingers extending from the sleeve base 18 coaxially with the receptacle chamber, such fingers being so located as to receive and yieldingly grip the lower end of the pen when it is inserted in the receptacle. The sleeve 15 is designed to be of any suitable material which will permit of the above described spreading or yielding action of the slotted walls thereof. The pressure exerted against the pen by the slotted walls of the sleeve is applied uniformly around the pen sides and the pen is held tightly upon the sealing seat 20^a regardless of the position of the receptacle unit (whether it be vertical, tilted or horizontal), and the pen, at all times, will be held in a centered position with respect to the receptacle chamber and with respect to the annular sealing seat.

The pen 19, to be held, is obviously of a size adapted to fit within the sleeve.

It will be understood that while I have shown and described only one form of structure embodying my invention, various changes in details and arrangement of parts may be made therein without departing from the spirit and scope of my invention as defined by the claims which follow.

Having thus described my invention, what I regard as new, and desire to secure by Letters Patent of the United States, is:

1. A holder for fountain pens, comprising a base, a pen receiving receptacle, means

mounted in said receptacle which excludes the air from the pen point section when the pen is inserted into the receptacle, said receptacle being swingingly secured to the base, a longitudinally slotted receiving sleeve for the pen mounted in said receptacle.

2. In a fountain pen desk set, a base member, a pen-receiving receptacle, means for swingingly mounting said receptacle on said base, means within said receptacle for excluding the atmosphere from the writing point and exposed feeding means of the pen to seal the same when the pen is inserted in said receptacle, and gripping members mounted in said receptacle for tensionally receiving the lower end of the pen and holding its writing point and exposed feeding means in sealed position in any position to which the receptacle may be swung.

3. In a fountain pen desk set, a base member, a pen-receiving receptacle, means for swingingly mounting said receptacle on said base, means within said receptacle for excluding the atmosphere from the writing point and exposed feeding means of the pen to seal the same when the pen is inserted in said receptacle, and spring fingers mounted in said receptacle for tensionally receiving the lower end of the pen and holding its writing point and exposed feeding means in sealed position in any position to which the receptacle may be swung.

4. In a fountain pen desk set, a base member, a pen-receiving receptacle, means for swingingly mounting said receptacle on said base, an axial sealing shoulder within said receptacle adapted to be engaged by the end of the pen for excluding the atmosphere from the writing point and exposed feeding means of the pen to seal the same when the pen is inserted in said receptacle, and spring fingers mounted in said receptacle and extending in the direction of the receptacle wall for tensionally receiving the lower end of the pen and holding its writing point and exposed feeding means in sealed position in any position to which the receptacle may be swung.

5. In a fountain pen desk set, a base member, a pen-receiving receptacle, means for supporting said receptacle in tilted position upon said base, means within said receptacle for excluding the atmosphere from the writing point and exposed feeding means of the pen to seal the same when the pen is inserted in said receptacle, and gripping members mounted in said receptacle for tensionally receiving the lower end of the pen and holding its writing point and exposed feeding means in sealed position.

6. In a desk set for fountain pens, a base, a pen-receiving receptacle mounted on the base and having within the same means for engaging the lower end of the pen to seal the exposed ink-feeding means and writing

point, and a member within the receptacle having an annular portion and spring fingers projecting from its annular portion and adapted to engage the lower end of the pen to insure said sealing relation.

7. In a desk set for fountain pens, a receptacle adapted to receive the writing point of the pen and having a circular portion against which the end of said pen seats to seal the writing point from the atmosphere, and circularly-arranged, yieldable gripping elements mounted in said receptacle and adapted to tensionally receive the end of the pen and hold it centered in said receptacle and sealed against said circular portion.

8. In a desk set for fountain pens, a receptacle adapted to receive the writing end of the pen and having a circular portion against which the end of said pen seats to seal the writing point from the atmosphere, and a sleeve member mounted in said receptacle and having an unslotted part fixed relative to the receptacle with a slotted portion extending therefrom along the walls of the receptacle providing circularly-arranged yielding fingers adapted to engage the pen at spaced points around its sides to grippingly hold the same in axial alignment in the receptacle and sealed against said circular portion.

9. In a desk set provided with a ball and socket joint, a pen-holding device comprising a pen-receiving receptacle associated with said ball for movement therewith, a member which extends along the inner wall of said receptacle, a plurality of yielding elements supported in position by said member, said elements being designed to engage the barrel of a pen and hold it tensionally in position when it is inserted in said receptacle.

10. In a fountain pen desk set, a base member, a pen-receiving receptacle, means for swingingly mounting said receptacle on said base so that it may be swung to a plurality of angular positions relative to said

base and to a position substantially parallel with said base, and means including a support element and yieldable gripping members coacting therewith and extending along the inner wall of said receptacle in the path of the pen to be inserted therein for tensionally receiving the pen and holding the same in position in said receptacle as said receptacle is swung to its various angular and its substantially horizontal positions.

11. In a fountain pen desk set, a base member, a pen-receiving receptacle, means for supporting said receptacle in tilted position upon said base, means within said receptacle for excluding the atmosphere from the writing point and exposed feeding means of the pen to seal the same when the pen is inserted in said receptacle, and a device mounted in said receptacle and having yieldable wall portions for tensionally receiving the lower end of the pen and holding its writing point and exposed feeding means in sealed position.

12. In a desk set for fountain pens, a receptacle adapted to receive the writing end of the pen and having a circular element therein against which the end of said pen seats to seal the writing point from the atmosphere, and a sleeve member mounted in said receptacle and having an unslotted part and a slotted part extending therefrom along the walls of the receptacle providing circularly-arranged yielding wall portions adapted to engage the pen at spaced points around its sides to grippingly hold the same in axial alignment in the receptacle and sealed against said circular portion.

13. A holder for fountain pens, comprising a base member, a pen-receiving receptacle, means for swingingly mounting said receptacle on said base, a plurality of spring members within said receptacle for yieldingly gripping the pen inserted therein to retain it in centered position in the receptacle.

HORACE L. BLACKMAN.