

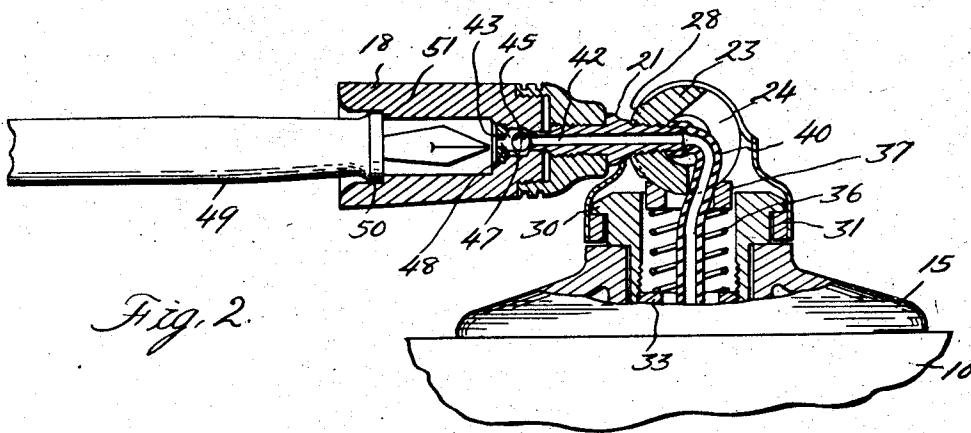
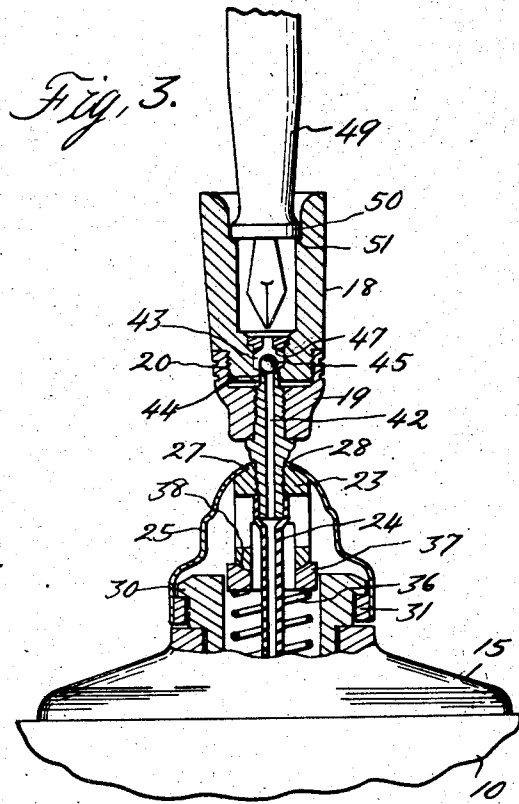
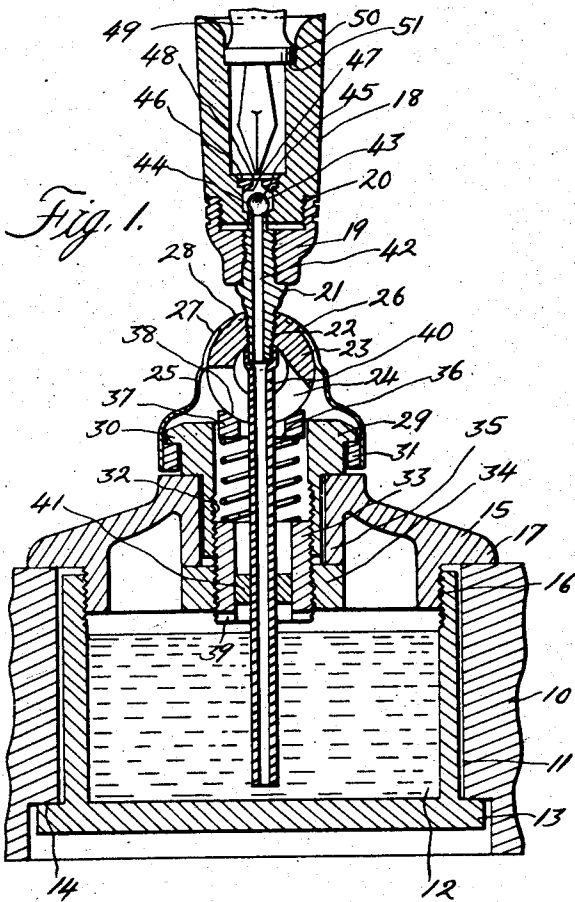
July 7, 1931.

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1,813,271

FOUNTAIN PEN DESK SET

Filed Aug. 26, 1929



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FOUNTAIN PEN DESK SET

Application filed August 26, 1929. Serial No. 388,589.

This invention relates to fountain pen desk sets and more particularly to improvements therein as will appear more fully as this description proceeds.

5 One of the primary objects of this invention is to provide an improved construction of universal connection between the pen supporting receptacle and the base of the desk set.

10 Another object of the invention is to provide a universal joint of this character whose construction lends itself to ready and economical production; facile assembly; and durability in use.

15 Another important object of the present invention is to provide a universal connection of this character, the construction of which permits association therewith of means permitting the filling of the fountain pen while supported in the pen supporting receptacle, together with the further feature that the unused writing fluid may be returned to the well after the filling operation is completed by an angular movement of the pen supporting receptacle.

25 The several objects, advantages and novel details of construction of this invention will be made more apparent as this description proceeds, especially when considered in connection with the accompanying drawings wherein

30 Figure 1 is a view partly in vertical section and partly in elevation of a fountain pen and desk set constructed in accordance with my invention;

35 Figure 2 is a fragmentary view of the structure shown in Figure 1 with the parts in a different position; and

40 Figure 3 is a fragmentary sectional view through the structure taken at right angles to that shown in Figure 1.

45 Referring now more particularly to the drawings, wherein like reference characters indicate like parts, it will be noted that there is illustrated a base 10 of the desk set which

may obviously be made of any desired material, size or configuration. The base 10 may be recessed to provide a well or may be recessed as shown at 11 to accommodate a separate well 12. In the structure shown this well is provided with a radial rib 13 which engages under a shoulder 14 formed on the base, the well being held in place by a cap or escutcheon member 15 provided with a threaded portion 16 threadedly engaging the upper edge of the well and with an annular shoulder 17 engaging the top face of the base.

The reference character 18 indicates generally a pen supporting receptacle to the lower end of which a collar 19 is threaded.

A substantially universal movement is permitted between the pen supporting receptacle and base 10 by the following construction: Threaded to the collar 19, as at 20, is a tubular member 21, the other end of which threadedly engages, as at 22, a circular or disk-like bearing member 23. The lower end of the tubular member 21 extends into the recess portion 24 of the member 23 for a purpose to be made more apparent hereinafter.

Surrounding the circular member 23 is a shell 25, this member having a portion 26 whose contour is semi-circular to correspond to that of the member 23, whereby the member 23 may be rotated with respect thereto while held in engagement with this portion 26. The shell 25 is provided with a slot 27 through which an extension 28 on the member 23 extends and through which the tubular member 21 also projects.

The shell 25 is rotatably mounted by means of a sleeve 29 having an annular shoulder 30 under which a rib 31 in the form of a collar, carried by the lower edge of the shell, extends. The sleeve 29 is interiorly threaded as indicated at 32 for engagement with an exteriorly threaded locking sleeve 33. This latter sleeve is adapted to receive a clamping

or lock nut 34 which engages a downwardly projecting sleeve-like projection or shoulder 35 carried by the cap member 15. The upper end of the sleeve 33 forms a seat for the lower end of the spring 36, the other end of which engages a pressure block or ring 37 provided with a concave upper surface 38 for engagement with the semiball-like member 23. The tension of the spring 36 may be adjusted by proper adjustment of the sleeve 33 to thus increase or decrease the pressure of the ring 37 on the semiball-like member 23, whereby the frictional resistance to the movement of the pen supporting receptacle 18 may be regulated. The ring member 33 is provided with a slot 39 to facilitate the latter's adjustment. Obviously the shell 25 and the semi-spherical member 23 permit an angular movement of the pen supporting receptacle 18 in a vertical plane, and the rotative movement of the shell 25 permits an angular adjustment of the pen supporting receptacle in a horizontal plane.

Obviously, if desired, the heretofore described structure may be employed in desk sets without the association therewith of means for refilling the fountain pen. However, the characteristics of the structure are such that a fountain pen filling means may be readily associated therewith. In this connection it will be noted that the lower projecting end of the tubular member 21 may have connected thereto the upper end of a flexible conduit such as a tube 40 which can extend downwardly through the recess 24 in the semiball-like member 23 and through the pressure ring 37, thence through the spring 36 and sleeve 33 to a point adjacent the bottom of the well 12. A spacing ring 41 will preferably be inserted in the sleeve 33 for holding the tube substantially in the position illustrated.

The member 21 is provided with a long bore 42, the upper end of which communicates with a recess 43 formed in the lower end of the pen supporting receptacle 18. The bottom of this recess is inclined downwardly towards the bore 42 and forms a seat 44 for a ball check valve 45. The upper side of the recess may be closed by means of a disk-like member 46, the lower surface of which is also inclined to provide a seat 47 for the ball check valve 45 in the event the device is turned upside down. An aperture 48 provides communication with the interior of the pen supporting receptacle. The reference character 49 indicates a fountain pen having a shoulder 50 adapted to seat on an internal shoulder 51 in the receptacle 18. When the fountain pen is inserted in the receptacle in the manner illustrated, with the receptacle in an upright position, the manipulation of the filling lever on the pen will cause writing fluid to be drawn upwardly from the inkwell by reason of the suction

created. This will lift the check valve 45, the writing fluid flowing into the lower end of the pen supporting receptacle and from there into the pen. The check valve 45 prevents the writing fluid from flowing backwardly into the well. After the fountain pen has been filled the unused writing fluid may be automatically returned to the well by angularly displacing the fountain pen receptacle as shown in Figure 2, whereupon the check valve 45 moves away from its seat 44 to a position adjacent the side of the recess 43, so that the unused fluid may flow backwardly into the well.

The herein described construction provides a simple but efficient and practical form of substantially universal connection between the pen supporting receptacle and the base. The structure is rugged and durable, may be quickly and economically manufactured and assembled with facility. The characteristics of the structure are such that in quantity production all of the parts may be made standard and the fountain pen filling means associated therewith if and when desired. The means for lifting the writing fluid from the well to the fountain pen supporting receptacle is simple, commercially practical and otherwise acceptable and efficient.

While an illustrative embodiment of the invention has been shown and described herein, it will be obvious that many changes may be made in all the non-essential details of construction and to this end reservation is made to make such changes as may come within the purview of the accompanying claims.

I claim as my invention:

1. A fountain pen desk set comprising a pen supporting receptacle, a base, means connecting said receptacle to said base comprising a semiball-shaped member on said receptacle having an opening extending there-through, a second member on which said semiball-shaped member is rotatably journaled, said second member also having an opening extending therethrough and means for rotatably mounting said second member on said base.

2. A fountain pen desk set comprising a pen supporting receptacle, a base, means connecting said receptacle to said base comprising a semiball-shaped member on said receptacle, a second member on which said semiball-shaped member is rotatably journaled and means for rotatably mounting said second member on said base, said semiball-shaped member and second member being rotatable about transversely extending axes, the connecting means for said receptacle and base being provided with an opening extending centrally therethrough.

3. In a fountain pen desk set, a base, a pen supporting receptacle, a semiball-shaped member carried by said pen receptacle, a sub-

- stantially semicircular shell member for rotatably supporting said semiball-shaped member, means for rotatably mounting said semicircular member upon said base including a sleeve-like member provided with an annular shoulder and an annular rib on said shell engaging under said shoulder, a pressure ring engaging said semiball-shaped member, a spring for urging said pressure ring into engagement with said semiball-shaped member, and means for securing said sleeve-like member to said base, a part of said latter means constituting an abutment for said spring.
4. In a fountain pen desk set, a base, a pen supporting receptacle, a substantially universal connection between said receptacle and base comprising members rotatable about transversely extending axes, a fluid well in said base, a passageway providing connection between said receptacle and well and a check valve for controlling said passageway located in a portion thereof partaking of angular movement, for the purpose set forth.
5. In a fountain pen desk set, a base, a fluid well in said base, a pen supporting receptacle, a connection between said receptacle and base permitting substantially universal movement of said receptacle, a tubular extension on said receptacle and a flexible tubular member connected thereto and extending through said connection and into said well providing communication between said receptacle and well.
6. In a fountain pen desk set, a base provided with a fluid well, a pen supporting receptacle, a tubular extension communicating with the interior of said receptacle, a semi-ball-shaped member carried by said tubular extension, a semi-circular member rotatably supporting said semiball-shaped member, means for rotatably mounting said semi-circular member upon said base and a flexible tubular member connected to said tubular extension and extending into said well to provide communication between said receptacle and well, for the purpose set forth.
7. In a fountain pen desk set, a base provided with a fluid well, a pen supporting receptacle, a tubular extension communicating with the interior of said receptacle, a substantially ball-shaped member carried by said tubular extension and provided with a passage therethrough, a semispherical member rotatably supporting said substantially ball-shaped member, means for rotatably mounting said semispherical member upon said base, and a tubular member connected to said tubular extension and extending through said ball-shaped member and semi-spherical member and into said well to provide communication between said receptacle and well, for the purpose set forth.
8. A fountain pen desk set comprising a pen supporting receptacle, a base, means connecting said receptacle and base comprising a substantially ball-shaped member carried by said receptacle, a semi-spherical-shaped housing in which said ball-shaped member is rotatably mounted for movement about a substantially horizontal axis and means for rotatably mounting said semi-spherical-shaped housing on said base for movement about a vertical axis, the connecting parts between said receptacle and base being provided with an opening extending therethrough.
- In testimony whereof I affix my signature.
ANDREAS BIENENSTEIN.

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