



# UNITED STATES PATENT OFFICE

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## FOUNTAIN PEN DESK SET

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This invention relates to fountain pen desk sets and more particularly to improvements therein in the connection between the pen supporting receptacle and the base or support therefor.

One of the important objects of the invention is to provide a substantially universal joint or connection between the pen receiver and base which may be economically manufactured and assembled with facility.

Other objects and advantages are realized from the novel combination, construction and arrangement of parts, all of which will be made more apparent as this description proceeds, especially when considered in connection with the accompanying drawings, wherein

Figure 1 is a sectional elevational view through a fountain pen desk set constructed in accordance with my invention;

Figure 2 is a similar view taken at right angles to Figure 1, and

Figure 3 is a separated perspective view of the several units or elements comprising the joint or connection between the pen supporting receptacle and the base.

Referring now more particularly to the drawings and more especially to Figures 1 and 2, it will be noted that there is illustrated a base or support 10 provided with a recess or well 11 which may contain writing fluid. The base 10 may be in the form of a well or writing fluid container or in the form of the conventional block type of base customarily employed in fountain pen desk sets, this base being recessed to provide a fluid containing well or to receive a separate well or container.

The base or support 10 is provided with an opening or recess 12 provided with an annular radially inwardly extending shoulder 13.

The reference character 14 indicates the fountain pen supporting receptacle which may be of any conventional or preferred construction, it being usually customary to provide an annular shoulder 15 upon which the end of the pen barrel rests when the pen is supported within the receptacle.

The lower end of the pen supporting re-

ceptacle 14 is internally threaded to receive the exteriorly threaded end of the stem or shank 16 of a headed member, the head 17 of which is substantially semi-spherical or substantially semi-ball shaped. The stem 16 is longitudinally curved as seen most clearly in Figures 1 and 3, and is of tubular formation to provide a longitudinal passage 18 therethrough, for a purpose to appear more fully hereinafter.

The head 17 is adapted to be received between a pair of socket plates 19 and 20, each of these socket plates being provided with a semi-spherical recess 21 whereby the two plates together form a socket recess to pivotally receive the head 17.

The upper socket plate 19 is split as at 22 to permit its assembly with the headed member, this socket plate being transversely slotted throughout substantially its entire width as at 23. This slot accommodates the stem or shank 16 of the headed member and permits the pivotal movement of this headed member as will be obvious. The lower socket plate is transversely slotted as at 24 for a purpose to be more fully hereinafter referred to.

The stem or shank 16 of the headed member is provided with a neck portion 25 of a somewhat reduced diameter which works in the slot 23 and after the socket plate 19 is assembled with the headed member, a ring member 26 is slipped down over the stem 16 until the inturned flange 27 thereof engages the substantially annular flange 28 on the socket plate 19. The ring member 26 is then permanently assembled with the socket plate 19 by bending radially inwardly tongues 29 formed on the ring member, these tongues extending over the annular flange 28 as seen best in Figure 2. This prevents the split socket plate 19 from being spread outwardly which would permit it being disassembled from the headed member, it being understood that the width of the slot 23 is less than the diameter of the stem or shank 16.

The pair of socket plates 19 and 20 together with the headed member 17 are located in a collar member 30 which is provided with an annular inwardly extending flange

31. This inwardly extending flange may be made integral therewith or separately and rigidly connected thereto as illustrated.

5 The flange 31 of this collar member 30 prevents movement of the socket member and headed member in one direction and a spring 32 is located within the annular portion of the collar member 30 and bears against the lower socket plate 20. The annular portion  
10 of the collar member 30 is interiorly threaded as at 33 to receive an exteriorly threaded portion 34 of a sleeve member 35. By properly adjusting the sleeve member 35 the pressure exerted by the spring member 32 on the  
15 socket member may be regulated so that the headed member will be held by friction in any of its adjusted positions.

The sleeve member 35 is provided with a threaded portion 36 which extends below the  
20 recess 12 and below the annular shoulder 13 and a locking nut 37 is threaded onto this projecting end and engages the downwardly facing shoulder provided by the annular portion 13. Thus the lower edge of the collar member 30 seats upon the upper face of the annular  
25 shoulder 13, whereas the locking nut 37 engages the lower face of this shoulder, thereby firmly securing the whole assembly to the base or support 10. The socket formed by the socket plates 19 and 20, permits of an  
30 angular movement of the pen supporting receptacle 14 in a vertical plane and the receptacle together with the headed member and the socket plates may be rotated in a horizontal  
35 plane about a vertical axis so that a substantially universal movement may be imparted to the pen supporting receptacle. The single spring 32 tensions both the angular and rotative movements of the pen supporting  
40 receptacle.

The passageway 18 in the headed member communicates with the interior of the pen supporting receptacle and in the receptacle,  
45 preferably at the juncture of the receptacle and the headed member, I provide a valve seat member 38 having a slightly conical valve seat 39 with which a check valve in the form of a ball 40 cooperates. This ball  
50 seats itself to close the opening when the receptacle 14 is in an upright position, but when the receptacle is tilted, the ball is dislodged from its seat as will be obvious. Connected to the tubular portion 41 of the valve  
55 member is a tube 42 which extends downwardly through the opening 18, thence through the sleeve member 34 and through an aperture 43 in the lock nut 37 to a point adjacent the bottom of the well 11. This  
60 tube is preferably flexible so as to permit of the movements of the pen supporting receptacle 14. The opening 18 is preferably flared as at 44 to provide sufficient clearance  
65 between the tube and the headed member dur-

ing the angular movements of the pen supporting receptacle.

In practice the pen supporting receptacle will be moved to an upright position and a fountain pen or the like (not shown) will be  
70 inserted in the receptacle with the end of the pen engaging the shoulder 15 to seal apart the lower end of the receptacle. The fountain pen filling means is then operated, and the suction resulting therefrom will  
75 draw ink upwardly from the well 11 through the tube 42 and unseat the valve 40, whereupon ink will be contained in the lower portion of the receptacle 14 from whence the fountain pen may be readily filled. When the fountain pen has been filled, any of the ink or writing fluid remaining may be permitted to drain back into the well by angularly displacing the receptacle which will  
85 unseat the ball 40 as has been previously explained. When it is not desired to fill the fountain pen, the receptacle 14 is free of ink and may be used in the same manner as the conventional type of pen supporting receptacle. If by any chance the fountain pen should leak, this ink will drain back into the well.

While one form of construction has been illustrated and described herein somewhat in  
95 detail, it will be readily apparent to those skilled in this art that various changes in many of the non-essential details of construction may be resorted to without departing from the spirit and scope of this invention, and to this end reservation is made to  
100 make such changes as may come within the purview of the accompanying claims.

What I claim as my invention is:

1. In a fountain pen desk set, a base, a pen supporting receptacle, a headed member  
105 connected to said receptacle, a pair of socket plates between which said head is received, a collar member surrounding said socket plates and in which said socket plates  
110 are rotatably mounted, and a spring for holding said socket plates together under tension and for tensioning the rotative movement of said socket plates, for the purpose set forth.

2. In a fountain pen desk set, a base, a pen supporting receptacle, a head on said receptacle, a pair of socket plates between which said head is received, a flanged collar,  
120 one of the socket plates engaging said flange, a spring engaging the other socket plate, a sleeve threaded into said collar, and means on said sleeve and cooperating with said collar for securing the assembly in an opening  
125 in said base.

3. In a fountain pen desk set, a base, a pen supporting receptacle, a headed member attached thereto having a stem provided with a reduced neck portion adjacent said head,  
130 a pair of socket plates between which said

head is received, the upper of said socket plates being split to permit assembly over the neck portion of said stem and an annulus surrounding said stem and engaging said split socket plate, for the purpose set forth.

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4. In a fountain pen desk set, a base provided with a recess having upwardly and downwardly presented shoulders, a pen supporting receptacle, a headed member connected to said receptacle, a pair of socket plates between which said head is received and rotatably journaled, a collar member in which said socket plates are rotatably mounted, a spring for holding said socket plates together under tension and for tensioning the rotative movements of said socket plates, a sleeve member threadedly engaging said collar member for adjustably securing said spring in place, said collar member engaging said upwardly presented shoulder, and a nut threaded on the end of said sleeve member for engaging said downwardly presented shoulder for securing the assembly in the recess in said base.

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5. In a fountain pen desk set, a support provided with a well, a pen supporting receptacle, a head connected to said receptacle, a socket comprising a pair of socket plates between which said head is secured and rotatively journaled, means for rotatively connecting said socket to said support and a tube extending through the connection between said receptacle and support for connecting the interior of said receptacle with said well.

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6. In a fountain pen desk, a support provided with a fluid well, a pen supporting receptacle, a headed member connected to said receptacle and provided with an opening extending therethrough, a pair of socket plates between which said head is received, said socket plates being provided with aligned openings, a collar member surrounding said socket plates and in which said socket plates are rotatably mounted, a spring for holding said socket plates together under tension and for tensioning the rotative movement of said socket plates, said spring being provided with an opening in register with the openings of said socket plates and headed member, and a tube extending through said aligned openings for connecting the interior of the pen supporting receptacle with said well.

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In testimony whereof I affix my signature.  
55                   HERMAN B. WILSON.