

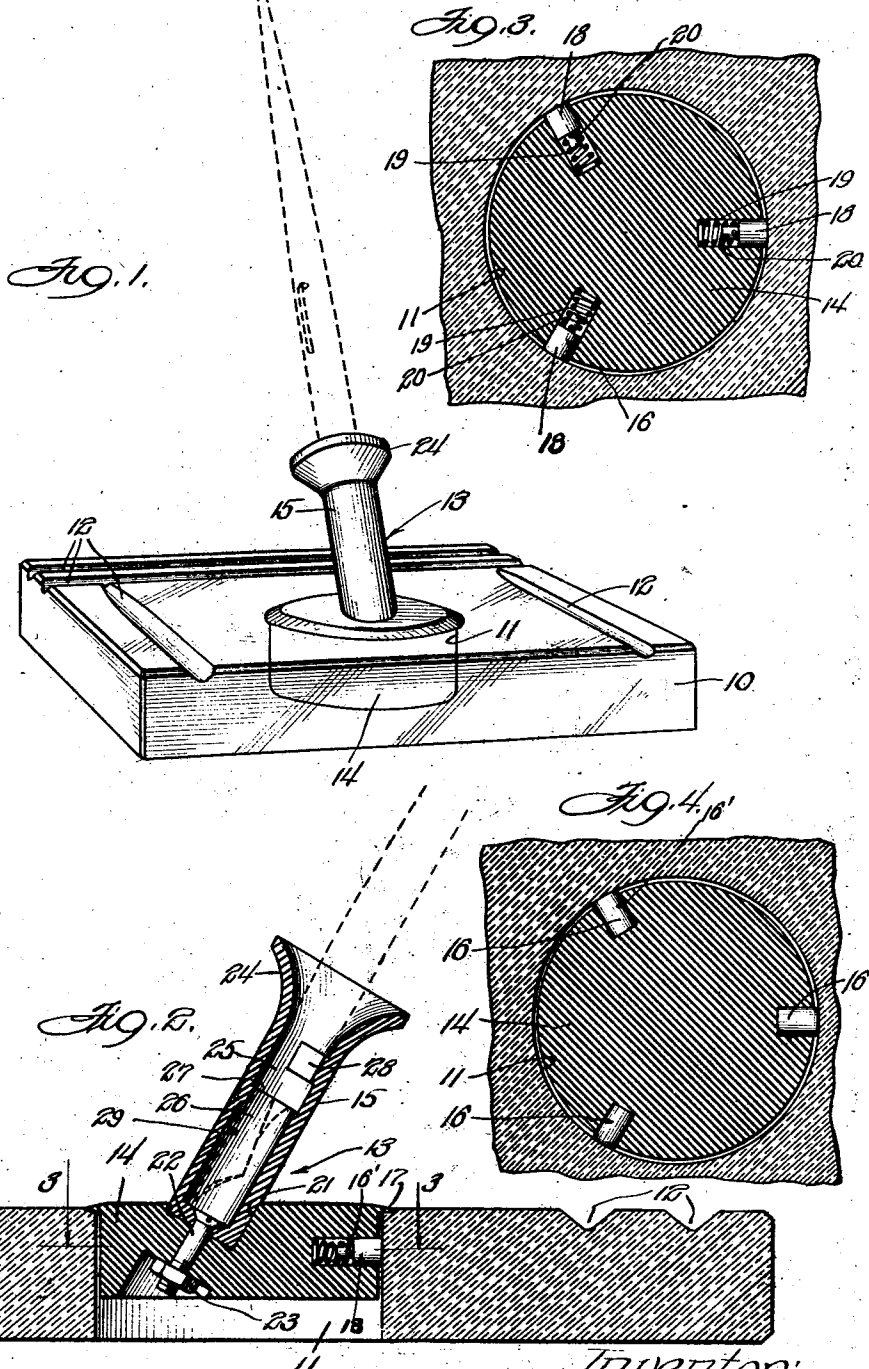
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F. D. HAMMONS

FOUNTAIN PEN DESK SET

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Witness:  
*W. H. Wood*

Inventor:  
FREDERICK D. HAMMONS.  
*J. Jones, Addington, Ames & Aris*  
*attys.*

# UNITED STATES PATENT OFFICE.

FREDERICK D. HAMMONS, OF SEATTLE, WASHINGTON, ASSIGNOR TO W. A. SHEAFFER PEN CO., OF FORT MADISON, IOWA, A CORPORATION OF DELAWARE.

## FOUNTAIN-PEN DESK SET.

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This invention relates to fountain pen desk sets and relates particularly to desk sets which comprise a base and a receptacle mounted therein for holding a fountain pen.

5 The primary use of this invention is in the office of a business executive where the need for a ready pen is frequent; therefore, its convenience mainly determines its utility.

10 Some of the most important contributing factors determining its conveniences are the position in which the pen is held in the receptacle so as to be grasped by the hand in the manner in which you would ordinarily  
15 hold a pen for writing, eliminating the adjustment to your style should it not be positioned at just such an angle; the ready flow of ink from the pen to meet the frequent need of the hurried man for hasty memo-  
20 randa and speedy signatures; and the axial adjustment of the receptacles should a plurality of receptacles be disposed on a single base to meet the demands of a group seated  
25 around a desk or table, the pens being so disposed as to be readily accessible to each user, thus avoiding delays in conferences.

Although the conveniences of my improved fountain pen desk set have been described with reference to its adaptability to  
30 the hurried and busy executive, it is apparent that it may be adapted to meet the requirements of any need or occasion for use in the home or office.

Aside from the foregoing conveniences, its practicability is its chief asset. Heretofore, bases have been provided with ink-  
35 wells and the usual grooves for resting pens therein. This invention provides the receptacle to be adapted to fit the recesses provided in these bases for holding ink, thereby  
40 eliminating the necessity of procuring new bases. As fountain pens are used in this desk set, there is no need of a local ink reserve and the container or recess may be uti-  
45 lized as a holder for the receptacle.

A further feature of this invention is the interior construction of the barrel of the receptacle. The ordinary construction of a  
50 fountain pen provides the writing point of the pen to be substantially coplanar with the periphery of the barrel thereof. An open-

ing designed to receive and snugly fit a fountain pen in an ordinary manner would cause the writing point of the pen to contact with the side wall and the bottom of the opening  
55 thus formed. As a consequence thereof, surplus ink is drawn into the bottom of the chamber, formed by this opening, and the nib of the pen becomes fouled. As a result of the present invention, provisions are made  
60 whereby there is no contact made between the nib of the pen and the wall or bottom of the chamber. As will be hereinafter explained, a substantially air-tight chamber is formed to facilitate the flow of ink from  
65 the pen. This action will be further enhanced by the condition of the writing point of the pen, the latter, by not contacting with the side walls or the bottom of the chamber, will be absolutely clean.  
70

One of the objects of this invention is to provide a fountain pen desk set of a design to permit the pen to be readily accessible to the user.

A further object of this invention is to  
75 provide a fountain pen desk set in which the receptacle is of such design as to be interchangeable with other sets or to replace the ordinary ink well in other stands.

A further object of my invention is to  
80 provide a fountain pen desk set in which the barrel of the receptacle forms a substantially air-tight chamber to keep the ink from drying in the pen thereby facilitating the flow of ink when starting to write.  
85

A further object of my invention is to provide a fountain pen desk set in which the barrel of the receptacle is positioned at such  
90 an angle that the ink will be gravitated to the writing point of the pen thereby likewise facilitating the flow of ink when starting to write.

A further object of my invention is to provide a fountain pen desk set in which the chamber, formed by the opening in the  
95 barrel of the receptacle, is of such a construction that there is no contact between the writing point of the pen and the side walls or bottom of said chamber.

A further object of my invention is to provide a practical, durable, and desirable fountain pen desk set.  
100

Further objects and advantages will be apparent from the accompanying drawing, in which:

Figure 1 is a perspective view of a preferred embodiment of my invention;

Fig. 2 is a vertical section of my invention;

Fig. 3 is a top plan section taken on the line 3—3 of Fig. 2; and

Fig. 4 is a view similar to Fig. 3 showing a modified form of an insert.

Referring more particularly to the drawing, the base 10 is preferably of plate glass with an aperture 11 extending therethrough and grooves 12 cut in its top surface. This base is made preferably of clear crystal plate glass of a rectangular shape, although a statuary bronze metal, or any other suitable substance, may be used as a base and formed into any desired shape. The grooves are arranged to conveniently receive pens or pencils.

Into the aperture 11 of the base is inserted a receptacle 13 including a base portion 14 and a barrel portion 15, the base portion being of such a diameter as to be uniform with that of the average inkwell in present use. In order to compensate for any variance in the diameters of present day inkwells, a plurality, preferably three, of inserts 16 are provided in recesses 16' in the periphery of the base portion 14. These inserts bear against the side walls of the aperture 11 and securely position the receptacle, thereby insuring it against axial rotation unless manually forced. The top surface of the base adjacent the aperture is preferably slightly countersunk to receive a flange 17 of the receptacle, thus forming a flush surface.

In the preferred embodiment of this invention, as illustrated in Fig. 3, an insert 16 is provided comprising a cylindrical hard rubber plug 18 and a compression spring 19. The spring 19 is provided with a convolution at one of its ends of a greater diameter than the remaining convolutions and of a slightly larger diameter than that of the recess 16' into which the spring is inserted. The other end of the spring is secured to the reduced portion 20 of the hard rubber plug 18. In assembling the insert 16 into the recess, the end of the spring 19, comprising the larger convolution, is forced therein, whereas, the remaining convolutions and the rubber plug, being of a substantially smaller diameter, follow and loosely engage the recess.

It will be apparent from the foregoing description that the compression spring will bear against the rubber plug, which in turn will bear against the side walls of the aperture 11. Should the receptacle be removed from the aperture 11 in the base, the plugs 18 being secured to the spring 19, and the

larger convolution of the spring anchoring the spring within the recess 16', the insert would be confined to the receptacle.

Also, as a modification thereof, a rubber insert 16 is provided which may be cut away or trimmed off to any desired length, with allowances for the resiliency of the material, so that it may snugly fit the aperture 11. This modification is clearly illustrated in Fig. 4 of the drawing.

In some instances, where a somewhat smaller base is used, it is apparent that the barrel portion 15 may be inserted directly into the base 10, thereby eliminating the base portion of the receptacle. The inserts may be provided on the periphery of the barrel and function the same as heretofore described in their relation between the base portion 14 and the base 10.

The receptacle 13 is formed preferably of a pyroxylyn plastic product, or of compositions such as are known to the trade as radite, bakelite, etc. The barrel 15 is inserted in an opening 21 in the base portion 14, formed at a predetermined angle and held in position by means of a bolt 22 and nut 23, the nut being countersunk in the bottom of the base portion. The upper end of the barrel is flared, as at 24, so as to guide the pen into the opening 25. The lower end of the opening 25 is reduced, as at 26, to form a shoulder 27 to snugly engage the lower end of the pen, thereby providing a substantially air-tight chamber.

As the pen, to insure its being substantially air-tight, must be held in the same axial relation with that of the reduced opening, a lip 28 is provided which extends part-way around the upper end of the opening 25. This lip is so positioned as to permit the barrel of the pen to rest in its inclined position in the same axial relation with that of the barrel of the receptacle. Any tilting away from such a relation would cause only a point contact between the periphery of the barrel of the pen and the shoulder 27. The lip 28 insures substantial contact for the entire circumference between the shoulder 27 and the barrel of the pen thereby forming a substantially air-tight chamber to prevent the ink from drying.

The lip 28 also serves another function since, if the pen were to engage the side walls of the barrel when inserted, the finish of both the pen and barrel would, upon continued usage, become marred; however, the lip serves as a spacer and prevents the back of the pen from touching the top of the barrel.

In order to insure against a contact between the nib of the pen and the wall of the barrel, a cut-away portion 29 is provided in the reduced opening 25. This is necessary because the nib of the pen is substantially coplanar with the periphery of the barrel

and, as hereinbefore stated, a contact or a close relation between the nib and the wall of the barrel would tend to draw a surplus of ink into the recess and foul the pen.

5 It will be readily apparent that a base may be provided of such size as to permit the insertion of a plurality of receptacles and that these receptacles may be turned to any desired position at the will of the user and  
10 be securely held in such a position. It will also be apparent, as pointed out before, that the receptacle may be adapted to fit apertures of various diameters in order to replace inkwells and the like in bases already  
15 in use, as well as the various bases adapted to their particular use.

While I have herein shown and described but a single embodiment of my invention, it is to be understood that I do not desire to be  
20 limited to this structure or the details thereof. Various other forms will be apparent to one skilled in the art and consequently the invention is to be limited only by the scope of the appended claims and the prior  
25 art.

I claim:

1. A fountain pen desk set comprising a flat base having a recess therein, a receptacle including a base portion and a barrel portion,  
30 said base portion fitting removably in said recess, said barrel portion having an opening to receive a fountain pen and means in said barrel to provide a support for the fountain pen.

2. A fountain pen desk set comprising a flat base having a circular recess therein, a receptacle including a base portion and a barrel portion, said base portion adapted to be free to rotate in said circular recess, said  
35 barrel portion having an opening to receive a fountain pen and means in said barrel to provide a support for the fountain pen.

3. A fountain pen desk set comprising a base having a recess therein, a receptacle including a base portion and a barrel portion,  
45 said base portion fitting removably in said recess, said barrel portion having an opening to receive a fountain pen and means in said barrel to provide for a substantially air-tight chamber, and means adjacent the periphery of said base portion to engage the walls of said recess whereby the base portion may be securely held therein.

4. A fountain pen desk set comprising a base having a recess therein, a receptacle including a base portion and a barrel portion,  
55 said base portion fitting removably in said recess, said barrel portion having an opening to receive a fountain pen and means in said barrel to provide for a substantially air-tight chamber, and means extending laterally from said base portion to engage the walls of said recess, said means being of a material which can be easily trimmed off whereby the base portion may be fitted to  
65 recesses of various sizes.

5. A fountain pen desk set comprising a flat base having a recess therein, a receptacle including a base portion and a barrel portion, said base portion fitting removably in  
70 said recess, said barrel portion having an opening to receive a fountain pen, means in said barrel to provide a support for the fountain pen, and means extending laterally from said base portion to engage the walls of said recess, said means being of a yielding  
75 material whereby said base portion may be forced into said recess to fit snugly therein.

6. A fountain pen desk set comprising a flat base having a recess therein, a receptacle including a base portion and a barrel portion, said base portion fitting removably in  
80 said recess, said barrel portion having an opening to receive a fountain pen, means in said barrel to provide a support for the fountain pen, and means extending laterally from said base portion to engage the walls of said recess, said means being of a yielding  
85 material which can be easily trimmed off whereby the base portion may be snugly fitted to recesses of various sizes.

7. A fountain pen desk set comprising a flat base having a recess therein, a receptacle including a base portion and a barrel portion, said base portion fitting removably in  
90 said recess, said barrel portion having an opening to receive a fountain pen, means in said barrel to provide a support for the fountain pen, said barrel portion having a flared upper end and an opening therein to guide a fountain pen, and a reduced portion  
95 in its lower end to form a shoulder for said fountain pen to engage, and a lip within said upper opening to axially align said pen with respect to said openings to insure a substantial contact for the entire circumference  
100 between the barrel of said pen and said shoulder to provide for a substantially air-tight chamber.

8. A fountain pen desk set comprising a base having a recess therein, a receptacle fitting removably in said recess, said receptacle having an opening in its upper end to receive a fountain pen, means in said barrel to provide for a substantially air-tight chamber, and means extending laterally from  
110 said receptacle to engage the walls of said recess, whereby said receptacle may be securely held therein.

9. A fountain pen desk set comprising a base having a recess therein, a receptacle including a base portion and a barrel portion, said base portion fitting removably in said  
120 recess, said barrel portion having an opening to receive a fountain pen, means in said barrel to provide for a substantially air-tight chamber, and a cut-away portion within said opening to provide for a substantial  
125 clearance between the nib of said fountain pen and the wall of said opening.

10. A fountain pen desk set comprising a 130

base having a recess therein, a receptacle including a base portion and a barrel portion, said base portion fitting removably in said recess, said barrel portion having an opening in its upper end to guide a fountain pen and a reduced portion in its lower end to form a shoulder for said fountain pen to engage in order to provide a substantial seal for the writing point of said fountain pen, and a cut-away portion in said reduced portion to provide for a substantial clearance between the nib of said fountain pen and the wall of said opening.

11. A fountain pen desk set comprising a flat base adapted to be placed on the top of a desk, and a receptacle including a base portion and a barrel portion having a cylindrical chamber therein adapted to receive and completely enclose one end of the body of a fountain pen and interconnecting means between said flat base and said receptacle whereby said receptacle is free to revolve on said base.

12. A fountain pen desk set comprising a flat base adapted to be placed on the top of a desk, a receptacle having a cylindrical chamber therein to support one end of the body of said fountain pen in order to pro-

vide a substantial seal for the writing point thereof, interconnecting means between said base and said receptacle whereby said receptacle is free to revolve on said base, and means for holding said receptacle in any desired fixed adjusted position.

13. A fountain pen desk set comprising a flat base adapted to be placed on the top of a desk, a receptacle having a cylindrical chamber therein to support one end of the body of said fountain pen in order to provide a substantial seal for the writing point thereof, interconnecting means between said base and receptacle whereby said receptacle is free to revolve on said base, and spring means for holding said receptacle in any desired fixed adjusted position.

14. A receptacle for a fountain pen desk set comprising a tubular member having a chamber therein and an upper end opening, said chamber being adapted to provide a substantial seal for the writing point of the fountain pen, and a lip within said upper end opening to axially align said pen with respect to said chamber and said opening.

In witness whereof, I have hereunto subscribed my name.

FREDERICK D. HAMMONS.