May 31, 1932. W. R. CUTHBERT 1,860,853

FOUNTAIN PEN DESK SET

Filed Oct. 20, 1930

Fig. 1.

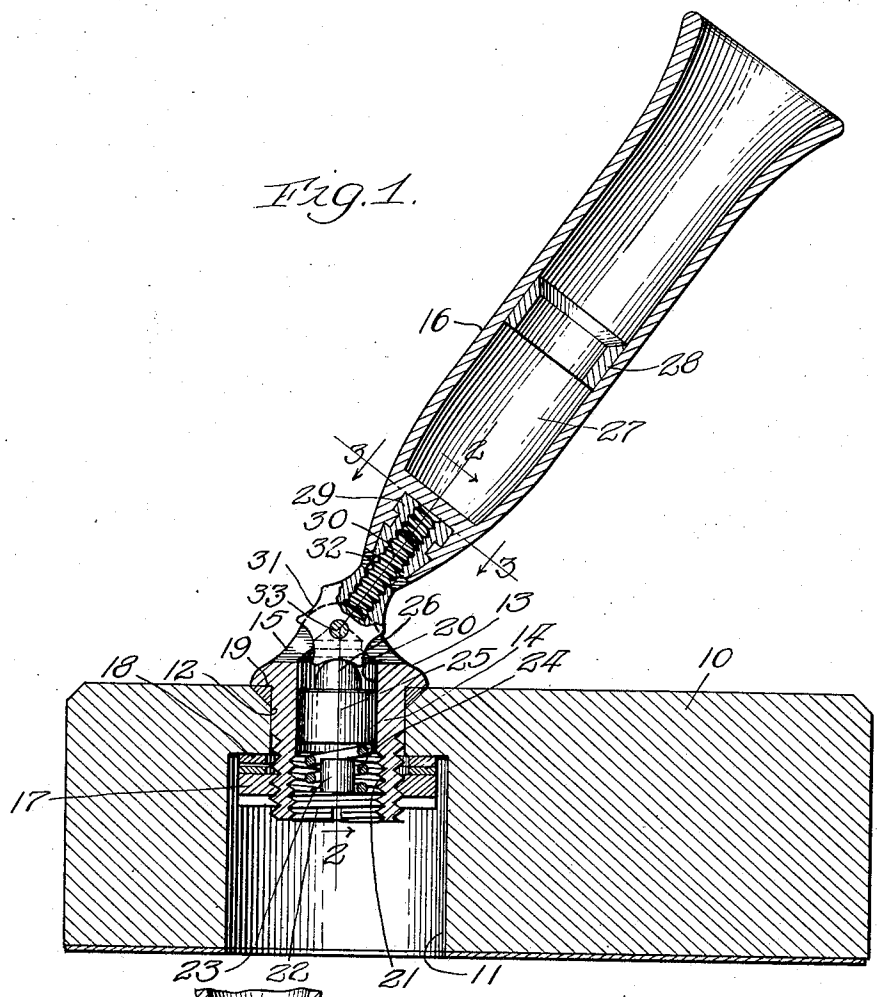


Fig. 2.

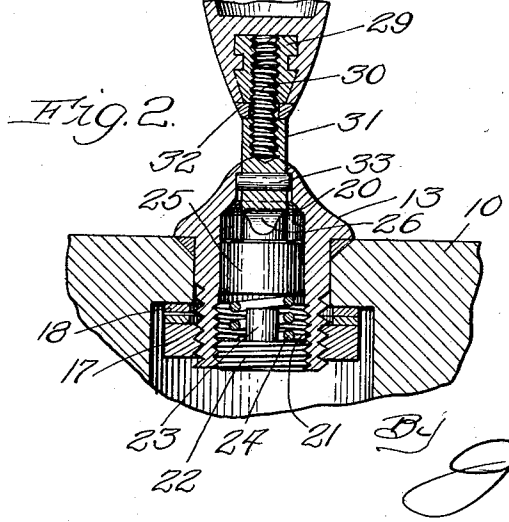
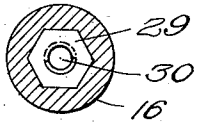


Fig. 3.



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UNITED STATES PATENT OFFICE

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FOUNTAIN PEN DESK SET

Application filed October 20, 1930. Serial No. 489,824.

This invention relates to a fountain pen desk stand and has special reference to a stand comprising a base having a receptacle mounted for universal movement thereon for receiving a fountain pen.

More particularly, this invention relates to a device comprising a base of substantial mass adapted to lie on the top of a table or desk having a receptacle for receiving and sealing from the atmosphere the writing point and ink feeding mechanism of a fountain pen, the receptacle being secured to the base in a manner to afford various positions of angular and rotatable adjustment.

In order that a fountain pen be always in readiness for use it is desirable to hold the pen in a position such that the ink flows toward the writing point thereby facilitating the flow of ink therefrom when starting to write. Further, the writing point and ink feeding mechanism is always kept in a moist condition by reason of the substantially air-tight chamber afforded in the lower end of the receptacle by means of a seat against which the end of the fountain pen barrel abuts.

In order that the use of a fountain pen desk stand may have a wide scope, the receptacle is given a universal movement, that is, it may be rotated on the base and also moved to various positions of angular adjustment with respect to the base. In this manner the receptacle may occupy a position such that it may face and be readily convenient for use by anyone seated about a desk or conference table. Also since desk stands of this type are ordinarily made of costly material and run into substantial amounts of money, the receptacle and included fountain pen may occupy a substantially horizontal position on the base so as to be placed in a shallow drawer for safe keeping.

In a patent assigned to the assignee of the present application, issued December 2, 1930 and given Patent No. 1,783,630, a fountain pen desk stand having the above characteristics is disclosed. The present invention is directed to a modification of said patent, the post, providing the universal movement for the receptacle, being lowered considerably which is very desirable since desk stands are formed into very ornamental objects and are sold for their beauty as well as for their usefulness. Further, the elements of the pivotal connection are all assembled from the inside avoiding the unsightliness of having the pivotal pin exposed to view. An anchor nut is molded in the socket and is thus sealed away from outside view and from the inside of the socket which construction is novel in the present application and greatly to be desired.

One of the objects of this invention is to provide a fountain pen desk stand of the above type which is durable; comparatively inexpensive to manufacture and to assemble; and which is efficient in operation.

A further object of this invention is to provide a fountain pen desk stand of the type above described wherein all the mechanism associated in the pivotal means between the receptacle and the base is concealed from view.

Another object of this invention is to provide a fountain pen desk stand of the character indicated above wherein the pivotal means between the receptacle and support is assembled from within the support.

A still further object of this invention is to provide a fountain pen desk stand in which the receptacle thereof is provided with an anchor nut for connection with the pivotal mounting means, the nut being mounted in the socket so as to be concealed from sight and being sealed away from the substantially air-tight chamber for the ink feeding mechanism of the fountain pen.

Other objects and advantages will be apparent from the following description and drawings forming a part of this specification to which latter reference may now be had for a more complete understanding of the characteristic features of this invention and in which drawings:

Figure 1 is a central sectional view of the fountain pen desk stand of this invention;

Fig. 2 is a central sectional view taken on the line 2—2 of Fig. 1; and

Fig. 3 is a plan sectional view taken on the line 3—3 of Figure 1.

Referring now more particularly to the drawings, the invention comprises a base 10 which is formed of marble, plate glass or other materials preferably having substantial weight and mass and may be made with various configurations thereon and into various shapes to make it desirable from a standpoint of beauty. Also it may be provided with recesses for receiving clips and pins and other depressions for receiving pencils, pens or statuary objects as is common in these types of devices.

The base is provided with intercommunicating concentric apertures 11 and 12 extending between the bottom and top surfaces thereof. A post 13 comprising a shank portion 14 and a head portion 15 is secured to the base 10 for pivotally and rotatably supporting a receptacle 16. The shank portion 14 of the post snugly engages the aperture 12 and is rotatable therein. The lower end of the shank is externally threaded to receive a lock nut 17 in threaded engagement therewith, the lock nut 17 bearing against a pair of spring washers 18 to urge the latter against a shoulder provided by the intersection of the enlarged opening 11 with the opening 12. In order to prevent chipping of the base by the rotation of the shank in the base 10, a washer 19 is disposed around the shank beneath the flanged head portion 15 and is preferably of a pyroxylin plastic product or of other well-known compositions.

The post 13 is provided with an axial bore 20 which is internally threaded as at 21 at the lower end thereof to receive a screw plug 22, the screw plug having a projecting member 23 for centering a coil spring 24. The upper end of the bore or opening 20 is adapted to receive in snug engagement therewith a plunger 25 having longitudinal movement therein. The upper end of the plunger 25 is reduced as at 26 and has a substantially semi-circular periphery for purposes which will hereinafter be described.

The receptacle 16 is formed preferably of a pyroxylin plastic product or of other well-known compositions and has a chamber 27 formed therein for receiving the writing point and ink feeding means of a fountain pen. The chamber is formed at the lower end of the receptacle shell by means of a shoulder comprising a cylindrical collar 28 against which the end of the pen rests. The collar thus provided may be said to be welded on the inside of the tube by means of a solvent. An anchor nut 29 is molded in the lower end of the receptacle and is sealed away from the chamber 27, there being a wall formed therebetween. The anchor nut is preferably of a polygonal shape, as seen best in Fig. 3, and has an annular depression peripherally thereof for preventing displacement longitudinally of the receptacle, its polygonal shape preventing rotation relative to the receptacle.

The anchor nut 29 is internally threaded to receive a screw 30 in threaded engagement therewith, the screw extending a substantial distance out of the end of the nut. A positioning member 31 of substantially rectangular lateral cross section is provided with a threaded aperture for threadedly engaging the projecting portion of the screw 30, a washer 32 being disposed between the end of the receptacle and the positioning member. A stud shaft 33 extends through and beyond each face side of the positioning member 31 and provides a pivot upon which the receptacle swings on the post 13. A series of scallops or arcuate portions are formed peripherally of the positioning member, the centers for the arcs being preferably equi-distantly radially spaced from the axis of the shaft 33.

The stud shaft 33 is mounted in a recess at the upper end of the central aperture 20 of the post 13, the recess conforming to the curvature of the circumference of the stud shaft, thus providing a bearing against which the shaft rests or is urged by the plunger 25. The head 15 of the post 13 is bifurcated to receive the positioning member 31.

In the assembly of the mechanism just described, the stud shaft 33 is mounted in the positioning member 31 whereafter this assembled unit is dropped through the threaded end of the bore 20 to a position such that the stud shaft 33 seats in the recess provided for it at the upper end of the post in the head thereof, the threaded aperture portion of the positioning member facing outwardly or upwardly through the bifurcated portion. The plunger 25 is next disposed in the bore or aperture 20 in the post whereafter the coil spring 24 is placed against the end of the plunger and the plug 22 screwed in place. The plug 22 is adjusted or tightened to a position such that the head 26 of the plunger 25 tensionally engages an arcuate portion of the positioning member 31. A sufficient amount of tension is provided by the compression of the spring 24 to hold the weight of the receptacle in the fountain pen disposed therein in an inclined position, the plunger urging the positioning member upwardly or outwardly from the post through the bifurcated portion and the shaft 33 against its recess or bearing.

The various positions to which the receptacle 16 may be moved is apparent from the drawings. The full line position is that in which the pen rests so as to be readily grasped by the hand in a position preparatory to writing. However, it may be desirable to move the receptacle to a position such that the pen is pointed to a second person seated on the opposite side of the desk for the convenience of the latter. Ofttimes the bases

are so large as to prevent a turning movement thereof and, therefore, the receptacle may be swung very readily. Further, it may be desirable to revolve the receptacle about the base in order to accommodate a group of users seated around the desk. This, of course, may be accomplished by manually forcing the post 13 to rotate in the apertured base against the friction of the spring washers which secure the post to the base. Again, the receptacle may occupy a position substantially horizontal with the top of the base or may be swung to various inclined positions in order to accommodate the pen to the writing position of the hand without further adjustment after the pen is removed from the receptacle. Besides the conveniences above enumerated, the particular universal mounting of the receptacle prevents the pen from breaking in case it is given an accidental jolt since it may move in any direction in which a jar may occur.

In the operation of the receptacle to its various annular positions, it will be apparent that should the plunger head 26 not have a seating engagement with one of the scallops or arcuate positions of the positioning member 31 as when the receptacle is out of a predetermined position, the arcuate surface will be out of axial alignment with the plunger and will thereby present a cam surface to the plunger whereby the latter is urged by its spring 24 to seat in one of the arcuate positions to pivot the receptacle into a predetermined position. Thus, in changing from one position to another it is only necessary to give the receptacle an initial movement whereafter it will automatically change into a predetermined second position. It is, of course, to be understood that as many scallops as may be desired may be provided peripherally of the positioning member so that instead of but the operative positions shown in the drawings, several more may be had.

As a result of the present invention it is possible to assemble or disassemble the above construction with comparative ease. Further, by reason of being able to assemble the pen from the inside of the post no unsightliness is presented to view which is very desirable since the object presented is not merely one of utility but one of beauty as well. It is highly desirable to conceal all operative mechanism in a device of this character. This has been accomplished by assembling all of the parts interiorally of the main elements. The mounting of the stud shaft for pivoting the receptacle on the inner side of the head permits of the lowering of the universal post 13 which adds both to its utility and ornamentation. The concealing of the connecting members between the receptacle and the post is advantageous in the same manner. Further, the provision of a lock nut and screw member molded in the receptacle provides for the disassembly of the receptacle without having to reach from within the receptacle and permits the metal connecting member to be sealed apart from the chamber for receiving the ink feeding mechanism of the fountain pen.

While but a single embodiment of this invention is herein shown and described, it is to be understood that various modifications thereof may be apparent to those skilled in the art without departing from the spirit and scope of this invention and, therefore, the same is to be limited only by the scope of the prior art and the appended claims.

I claim:

1. A fountain pen desk set comprising a flat base adapted to be placed on the top of a desk, supporting means on said base comprising a member having a recess, a receptacle pivotally mounted on said supporting means for holding a fountain pen, and means for holding said receptacle in various fixed adjusted positions wherein the ink in said pen flows toward the writing point thereof, said holding means being contained wholly within said recess of said supporting means.

2. A fountain pen desk set comprising a flat base adapted to be placed on the top of a desk, supporting means on said base comprising a member having a recess, a receptacle, a positioning member on said receptacle pivotally mounted on said supporting means, and means for engagement with said positioning member for holding said receptacle in various fixed adjusted positions wherein the ink in said pen flows toward the writing point thereof, said engaging means being contained wholly within said recess of said supporting means.

3. A fountain pen desk set comprising a flat base adapted to be placed on the top of a desk, supporting means on said base comprising a member having a recess, a receptacle, a positioning member on said receptacle pivotally mounted on said supporting means, and a spring pressed plunger for engagement with said positioning member for frictionally holding said receptacle in various fixed adjusted positions wherein the ink in said pen flows toward the writing point thereof, said plunger, positioning member and pivotal means being contained wholly within said recess of said supporting means.

4. A fountain pen desk set comprising a flat base adapted to be placed on the top of a deck, supporting means on said base comprising a member having a recess, a receptacle, a positioning member on said receptacle, pivotal means on said positioning member for loosely engaging said supporting means, and means for engagement with said positioning member for holding said receptacle in vari-

ous fixed adjusted positions wherein the ink in said pen flows toward the writing point thereof, said pivotal means and said receptacle holding means being contained wholly within said recess of said supporting means.

5. A fountain pen desk set comprising a flat base adapted to be placed on the top of a desk, supporting means on said base comprising a member having a recess, a receptacle, a positioning member on said receptacle, a pin extending on each side of said positioning member for loosely engaging said supporting means, and means for engagement with said positioning member for holding said receptacle in various fixed adjusted positions wherein the ink in said pen flows toward the writing point thereof, said pin and said receptacle holding means being contained wholly within said recess of said supporting means.

6. A fountain pen desk set comprising a flat base adapted to be placed on the top of a desk, supporting means on said base comprising a member having a recess, a receptacle, a positioning member on said receptacle having a scalloped periphery indicative of at least one predetermined position of said receptacle, a pin loosely fitting in an aperture in said positioning member for engaging said supporting means, and means for engagement with said scallop for holding said receptacle in a fixed adjusted position wherein the ink in the pen flows toward the writing point thereof, said pin and said scallop engaging means being contained wholly within said recess of said supporting means.

7. A fountain pen desk set comprising a flat base adapted to be placed on the top of a desk, a supporting post having a recess in the lower end thereof and an upper end opening communicating with said recess, a receptacle for holding a fountain pen, means removably attached to said receptacle for pivotal support on said post, and means in engagement with said pivotal means for holding said receptacle in various fixed adjusted positions wherein the ink in said pen flows toward the writing point thereof, said holding means and said pivotal means being contained wholly within said recess for connection with said receptacle through said upper end opening.

8. A fountain pen desk set comprising a flat base adapted to be placed on top of a desk, a supporting post having a recess in the lower end thereof and an upper end opening communicating with said recess, a receptacle for holding a fountain pen, a pivotally mounted positioning member on said receptacle extending through said upper end opening, and means for engagement with said positioning member for holding said receptacle in various fixed adjusted positions wherein the ink in said pen flows toward the writing point thereof, said positioning member, pivotal means and said engaging means being contained wholly within said recess in said post.

9. A fountain pen desk set comprising a flat base adapted to be placed on top of a desk, a supporting post having a recess in the lower end thereof and an upper end opening communicating with said recess, a receptacle for holding a fountain pen, a positioning member having a scalloped periphery and being mounted on said receptacle and extending through said upper end opening, and a spring pressed plunger for engagement with said scallop for frictionally holding said receptacle in at least one fixed adjusted position wherein the ink in said pen flows toward the writing point thereof, said plunger and said positioning member mounting means being contained wholly within said recess.

10. A fountain pen desk set comprising a flat base adapted to be placed on top of a desk, a supporting post having a recess in the lower end thereof and an upper end opening communicating with said recess, a receptacle for holding a fountain pen, a positioning member removably secured to the lower end of said receptacle and extending through said upper end opening, pivotal means on said positioning member for loosely engaging the upper end of said recess, and means for engagement with said positioning member for holding said receptacle in various fixed adjusted positions wherein the ink in said pen flows toward the writing point thereof, said pivotal means and said receptacle holding means being contained wholly within said recess.

11. A fountain pen desk set comprising a flat base adapted to be placed on top of a desk, a supporting post having a recess in the lower end thereof and an upper end opening communicating with said recess, a receptacle for holding a fountain pen, a positioning member removably secured to the lower end of said receptacle and extending through said upper end opening, a pin extending through said positioning member for loosely engaging the upper end of said recess for pivoting said receptacle, and means for engagement with said positioning member for holding said receptacle in various fixed adjusted positions wherein the ink in said pen flows toward the writing point thereof, said pin and said receptacle holding means being contained wholly within said recess.

12. A fountain pen desk set comprising a flat base adapted to be placed on top of a desk, supporting means on said base, a receptacle having a chamber for sealing the writing point end of said fountain pen, a bushing in the closed end of said receptacle apart from said chamber, a positioning member removably engaging said bushing and pivotally mounted on said supporting means, and

means engaging said positioning member for holding said receptacle in various fixed adjusted positions wherein the ink in said pen flows toward the writing point thereof, said holding means and said positioning means being assembled from within said supporting means.

In witness whereof, I have hereunto subscribed my name.

WILLIAM R. CUTHBERT.