Jan. 10, 1933. A. BIENENSTEIN 1,893,534

FOUNTAIN PEN DESK SET

Filed Feb. 10, 1930

Fig. 1.

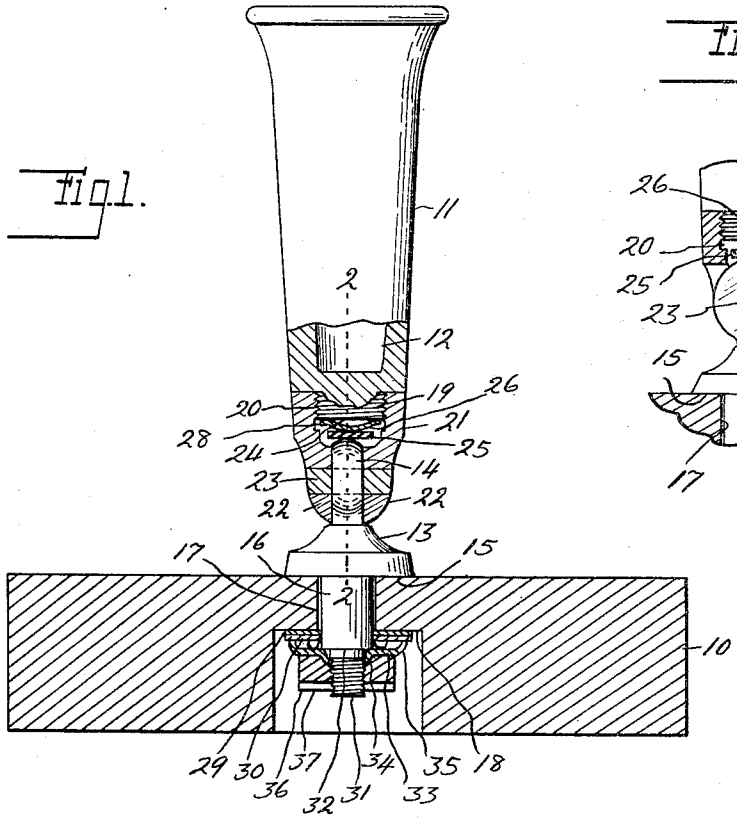
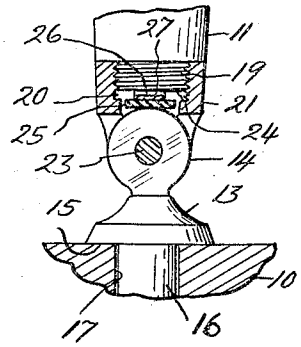


Fig. 2.



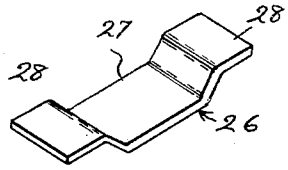


Fig. 3.

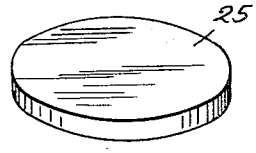
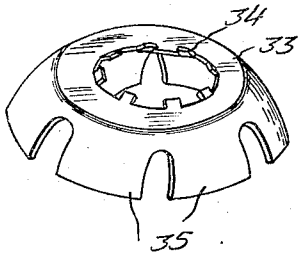


Fig. 4.



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UNITED STATES PATENT OFFICE

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FOUNTAIN PEN DESK SET

Application filed February 10, 1930. Serial No. 427,386.

This invention relates to fountain pen desk sets of the type comprising a substantially flat base adapted to be placed upon the top of a desk or the like, and a pen supporting receptacle connected to the base for relative angular movements with respect thereto.

It is one of the important objects of this invention to provide an improved construction of this nature which is simple and durable; may be economically manufactured; and assembled with facility and dispatch. To this end the invention contemplates a novel construction of connecting means between the base and pen supporting receptacle whereby the receptacle is permitted to be swung to various angular positions of adjustment and tensionally held in these various positions.

Various other 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 drawing wherein,

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

Figure 2 is a fragmentary vertical sectional view taken substantially on the plane indicated by line 2—2 in Figure 1;

Figure 3 is a separated perspective view of the tensioning means for one of the pivotal connections;

Figure 4 is a perspective view of the combined tension and nut locking member;

Referring more particularly to the drawing and especially to Figures 1 to 4 inclusive, it will be noted that there is illustrated a base 10, substantially flat, and adapted to be placed on the top of a desk or the like. A pen supporting receptacle 11, which is adapted to receive the writing point and support a fountain pen (not shown) is connected to the base by means permitting the receptacle to be swung to various angular positions of adjustment with respect to the base. As is customary, the pen supporting receptacle is open at its upper end and is provided with an internal shoulder (not shown) upon which the end of the pen section rests, the lower end 12 of the pen supporting receptacle being closed.

As shown in Figures 1 to 4 inclusive, the connection between the pen supporting receptacle 11 and base 10 comprises a pedestal member 13 having a flat substantially circular pivot or hinge part 14. The pedestal member is shouldered as at 15 and this shoulder is adapted to rest upon the top of the base, the pedestal being further provided with a downwardly extending portion or projection 16 adapted to extend into an opening 17 formed in the base. This opening is provided with an internal downwardly facing shoulder 18 below or beyond which the projecting portion 16 extends.

The pen supporting receptacle 11 is provided with a reduced projection or extension 19 externally threaded for engagement with a threaded recess 20 formed in a substantially tubular pivot or hinge part 21 companion to the pivot or hinge part 14. The lower end of hinge part 21 is slotted or bifurcated providing a pair of spaced hinge or pivot parts 22 adapted to engage the hinge part 14 on opposite sides thereof, a pivot pin 23 being passed through the superposed pivot parts 14 and 22 to unite the same. Thus the pen supporting receptacle 11 is capable of angular adjustment with respect to the base in a vertical plane at right angles to the axis of pivot pin 23.

In constructions of this character it is expedient to provide friction or tension means for yieldably holding the receptacle 11 in its several positions of angular adjustment, and in accordance with this invention I provide not only a simple and economical but an effective and easily assembled means for frictionally tensioning the pivotal connection between the receptacle and base.

As will be noted particularly in Figures 1 and 2 the lower end 24 of the projection 19 of the receptacle terminates short of the bottom of recess 20 in the hinge part 21, thus providing a space in which it is convenient to house the friction inducing members. As will also be noted, a portion of the upper periphery if hinge part 14 projects into this

recess 20. Accordingly I propose employing a friction disk or member in the form preferably of a fibre washer 25 adapted to rest on the upper periphery of hinge part 14. Superposed on fibre washer 25 is a formed metal spring 26 in substantially the form of a leaf-spring longitudinally shaped to provide an intermediately bowed or downwardly extending portion 27 and a pair of end portions 28 located in substantially the same horizontal plane. This spring member 26 is disposed in the recess 20 with the center depressed or bowed portion 27 engaging the top of friction disk 25 and with the end portions 28 engaging the lower end 24 of the threaded extension 19.

Thus, when receptacle 11 is assembled with hinge part 21 by threading the extension 19 into the threaded recess 20, the lower end 24 of this threaded extension will engage the ends 28 of spring member 26 and press the spring member down against the frictional disk 25 which in turn will be yieldingly urged against the upper periphery of the hinge part 14. It will be seen that the friction inducing means 25—26 may be assembled with the remaining structure quickly and expeditiously and that upon the further assembling of the pen supporting receptacle with the hinge part 21, the friction inducing means will be rendered active and operative. Moreover, it is possible to regulate the degree of pressure by the extent to which the threaded extension 19 is screwed down into the recess 20.

As previously pointed out the lower portion 16 of the pedestal 13 extends beyond or below the downwardly facing shoulder 18 and in order to yieldingly retain the pedestal in the opening 17 and to permit a frictionally retarded rotation thereof with respect to the base, the following structure is provided. A pair of washers 29 and 30 are placed over the projecting end of pedestal portion 16, one of these washers, that is washer 29, engaging the downwardly facing shoulder 18. The extreme lower end of portion 16 is reduced and threaded as indicated at 31, this reduced portion providing a shoulder 32. A combination tension and nut locking member 33 (shown separate in Figure 4) is then slipped over the end of the pedestal portion 16 until it engages the shoulder 32. The periphery of the center recess of this member 33 is provided with a plurality of twisted nut locking teeth 34 and the outer periphery of this member is provided with a plurality of resilient spring fingers or projections 35 adapted to engage washer 30 (see particularly Figure 1). Thereafter a nut 36 is engaged with the threaded portion 31 of the pedestal extension 16 and screwed into holding engagement with the member 33. This nut may be provided with a slot 37 to facilitate its application and removal onto and from the threaded portion 31. When screwed on, the nut 36 is locked into place by the locking teeth 34 and the nut presses the spring fingers 35 against the washer 30, which in turn presses washer 29 against the downwardly facing shoullder 18. This yieldingly retains the pedestal member 13 seated in the opening 17 and provides a friction means which yieldingly resists rotation of the pedestal 13.

In practice a small amount of lubricant could be placed between the washers 29 and 30, the washer 29 being non-rotatably held in position by the friction resulting from its engagement with the shoulder 18 and the washer 30 rotating with the pedestal by reason of its engagement with the member 33.

From the structure just described it will be obvious that the pen supporting receptacle 11 may be moved to various angular positions of adjustment in a vertical plane at right angles to the axis or pivot pin 23 and at the same time the pedestal 13 may be rotated with respect to the base so as to provide for movement of the receptacle to different angular positions including, by reason of the pivot connections 14—22—23, a position substantially flat upon the base.

From the foregoing it will be apparent that I have provided a simple but commercially practical construction which may be economically manufactured and assembled with facility and dispatch. In practice the herein described structures have been found to give entirely satisfactory results.

What I claim as my invention is:

1. In a fountain pen desk set of the class described, a base having a circular opening therein with an internal downwardly facing shoulder, a pedestal member mounted for turning movements in said opening and having a portion projecting beyond the said shoulder, a combined tension and nut locking member having an opening receiving said projecting portion, the periphery of said opening being provided with nut locking projections, the outer periphery of said member cooperating with said shoulder to yieldingly retain the pedestal member seated in said opening, and a nut on the end of said projecting portion in holding engagement with said member and locked in position by said projections.

2. In a fountain pen desk set, a flat base adapted to be placed on top of a desk, said base having a circular opening therein with an internal downwardly facing shoulder, a pedestal member mounted for turning movements in said opening and having a portion projecting below said shoulder, a combination tensioning and nut locking member having a central opening receiving the projecting portion of said pedestal, the periphery of said opening being provided with nut locking portions, the outer periphery of said member being shaped to provide a plurality

of spring fingers cooperating with said shoulder to yieldingly retain the pedestal member seated in said opening and to tension its rotative movements, and a nut on the end of said projecting portion in holding engagement with said member and locked in position by the nut locking portions thereof.

3. In a fountain pen desk set, a flat base adapted to be placed on top of a desk, said base having a circular opening therein with an internal downwardly facing shoulder, a pedestal member mounted for turning movements in said opening and having a portion projecting below said shoulder, a pair of washers on the projecting portion of said pedestal, the first of which engages said shoulder, a combination spring and lock washer on the projecting portion of said pedestal with its periphery engaging the other of said washers, and a nut on the end of said projecting portion in holding engagement with said washer and locked in position thereby, said combination washer acting to yieldingly retain the pedestal member seated in said opening and to tension its rotative movement, said first two washers moving relative to one another during the rotative movements of said pedestal.

4. In a fountain pen desk set, a base having a circular opening therein with an internal downwardly facing shoulder, a rotatable pedestal member mounted for turning movements in said opening and having a portion projecting below said shoulder, said pedestal member being provided with a hinge part, a companion hinge part connected thereto, said companion hinge part being provided with a recess into which the first hinge part projects, friction means in said recess to tension the relative movements of said hinge parts, a pen supporting receptacle detachably connected to said companion hinge part by having a portion engaged in said recess, the portion of said receptacle in said recess acting to maintain said friction means in operative position, a combination spring and lock washer on the said projecting portion of said pedestal and cooperating with said shoulder to yieldingly retain the pedestal member seated in said opening and to tension its rotative movement, and a nut on the end of said projecting portion in holding engagement with said washer and locked in position thereby.

In testimony whereof I affix my signature.

ANDREAS BIENENSTEIN.