

Aug. 22, 1933.

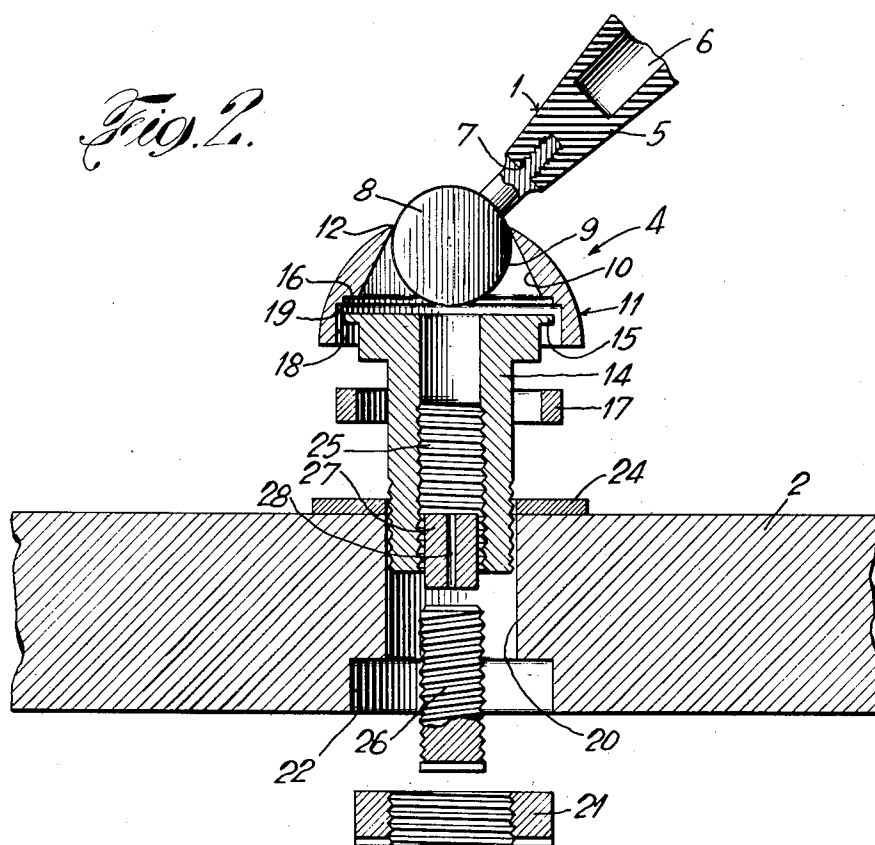
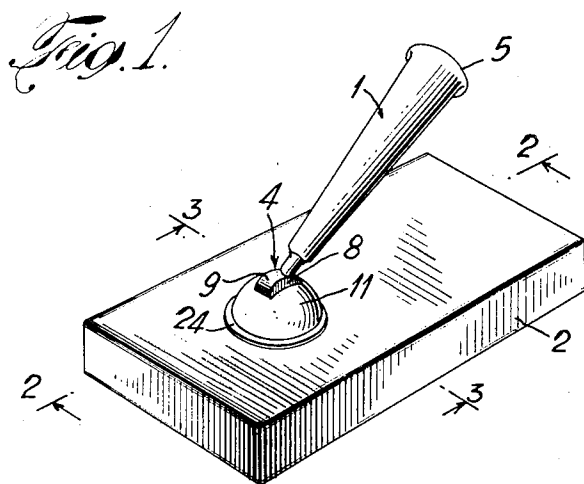
H. KRAUSE

1,923,734

PEN DESK SET

Filed Oct. 3, 1931

2 Sheets-Sheet 1



INVENTOR

HENRY KRAUSE

BY *his* ATTORNEY

Norman D. Holland

Aug. 22, 1933.

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2 Sheets-Sheet 2

Fig. 3.

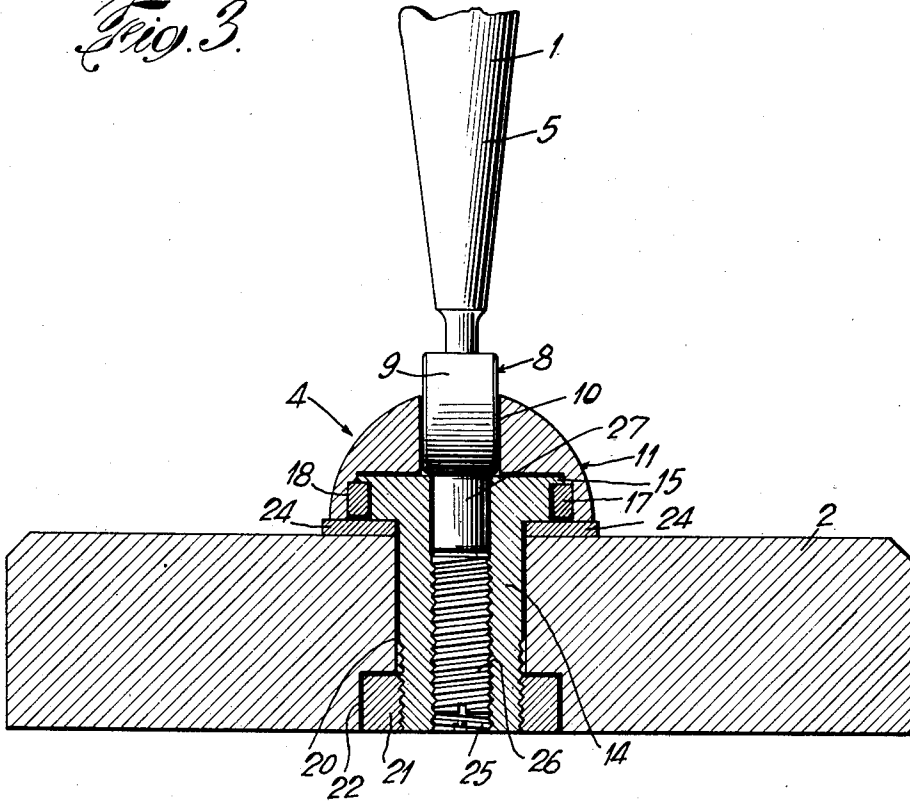


Fig. 4.

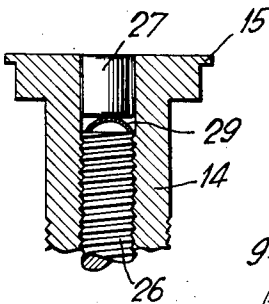


Fig. 6.

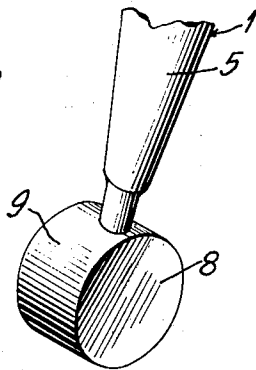
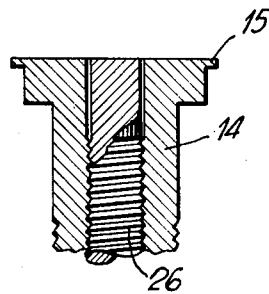


Fig. 5.



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UNITED STATES PATENT OFFICE

1,923,734

PEN DESK SET

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The Chilton Pen Company, Inc., Long Island
City, N. Y., a Corporation of New York

Application October 3, 1931. Serial No. 563,675

17 Claims. (Cl. 120—108)

The present invention relates generally to desk sets and more particularly to desk sets for fountain pens and the like.

Pen desk sets have been and are being used extensively to serve a two-fold purpose. First, when properly designed, they are ornamental and serve to give an attractive and businesslike appearance; secondly, the holders for the fountain pens substantially close the writing end of the pen and exclude the air therefrom. The result is that the ink on the pen does not dry up and impair the writing qualities of the pen. In addition, of course, the sets keep the pen convenient for use at all times.

It is customary and desirable to have the pens mounted in an inclined position so that they may be readily gripped for writing. It is also customary to have the swivel on which the pens are mounted adjustable so that the inclination can be changed to suit the taste of the user. Various attempts have been made to achieve these results, but these have been only partially successful. One of the chief difficulties is that the adjustable swivel is not capable of withstanding the use to which it is subjected. The resulting wear and slight abuse cause the swivel to lose, in part or entirely, its adjustable characteristics. Springs and other means have been devised to keep the resistance to movement substantially constant, irrespective of wear, but these have not been satisfactory. In addition, the constructions heretofore have been complicated and expensive to manufacture, as well as difficult to repair or adjust.

The present invention aims to eliminate or minimize the above difficulties by providing a pen desk set, or a swivel therefor, which is simple in construction, inexpensive to manufacture, and which will readily withstand the rough usage to which it may be subjected, without requiring repairs. The present invention also aims to eliminate spring members and to provide a simple adjustment which can be made by the user of the set to obtain resistance to movement of the swivel necessary to please the individual taste and to maintain the resistance to movement substantially constant.

An object of the present invention is to provide a simple adjustable device for holding fountain pens in any desired horizontal or vertical position.

Another object of the invention is to provide a fountain pen holding device which is rugged in construction and which will not be impaired

by prolonged use thereof, thereby minimizing or eliminating repair.

Another object of the invention is to provide frictional means for holding the pen supporting means in position, thereby eliminating the use of spring members and minimizing necessary repair thereof.

Another object of the invention is to provide a pen swivel for a desk set which is simple in construction, attractive in appearance, and readily adjustable to vary the resistance to movement thereof.

Another object of the invention is to reduce the cost of manufacturing desk sets.

A further object of the invention consists in the combination of elements and arrangement of parts adapted to achieve the objects enumerated above.

Other and further objects of the invention will be obvious upon an understanding of the illustrative embodiment about to be described, or will be indicated in the appended claims, and various advantages not referred to herein will occur to one skilled in the art upon employment of the invention in practice.

A preferred embodiment of the invention has been chosen for purposes of illustration and description and is shown in the accompanying drawings, forming a part of the specification, wherein

Fig. 1 is a perspective view illustrating a preferred embodiment of the present invention;

Fig. 2 is a partial sectional view, taken along the line 2—2 of Fig. 1, showing the parts of the desk set about to be assembled;

Fig. 3 is a partial sectional view, taken along the line 3—3 of Fig. 1, showing the parts assembled;

Fig. 4 is a fragmentary sectional view showing a modification of the embodiment;

Fig. 5 is a fragmentary sectional view showing another modification of the embodiment; and

Fig. 6 is a fragmentary perspective view of the lower end of the pen holder.

Referring again to the drawings, and more particularly to Figs. 1, 2 and 3 thereof, there is shown a pen desk set comprising a pen holder 1 mounted upon a base 2 by means of a swivel 4 adapted to permit universal adjustment of the pen holder so that the pen therein may be moved to any desired angle either in a vertical or horizontal plane.

The pen holder may comprise a pen receptacle member 5 having a recess or barrel 6 therein adapted to receive and substantially enclose the

writing end of a fountain pen or like writing implement. The lower end of the pen receptacle is preferably threaded at 7 to a supporting member 8, having a cylindrical portion 9 adapted to co-operate with a recess 10 in a dome-shaped swivel member 11. The recess 10 is substantially trapezoidal in shape and the sides 12 thereof engage the cylindrical surface 9 of the lower end of the member 8 to prevent the member from passing through the recess. In other words, the diameter of the cylindrical portion 9 is slightly greater than the width of the recess 10, so that it is necessary to insert the supporting member 8 through the bottom of the dome-shaped member 11.

An upright anchor member 14 is provided with a flange 15 at its upper end adapted to fit into the lower end of the dome-shaped member 11 and to rest against an annular shoulder 16 provided therein. To rotatably mount the dome-shaped member 11 on the anchor member 14, an annular ring 17 is swaged into a cylindrical recess 18 at the base of the dome-shaped member against the annular flange 15 on the anchor member 14. The shoulder 19 forms a seat for the ring member 17 so that the dome-shaped member is securely mounted on the anchor member 14 and yet readily rotatable with respect thereto. The thickness of the flange 15 is such that sufficient play is provided between it and the ring member 17 to facilitate rotation of the dome-shaped member 11. After the member 11 and the annular member 14 have been assembled, the threaded lower end of the member 14 may be inserted through an aperture 20 in the base 2 and secured therein by means of a nut 21, as shown more particularly in Fig. 3. A recess 22 is provided to receive the nut 21 so that the bottom of the base 2 will be smooth. In the preferred embodiment, a ring or washer 24 is interposed between the base of the dome-shaped member 11 and the base 2 of the set. This minimizes wear upon the upper surface of the base and provides a neat construction.

The anchor member 14 may be provided with an inner bore 25, threaded to receive a threaded member or bolt 26. The purpose of the bolt 26 is to apply pressure to the lower side of the member 8 and to force the cylindrical portion 9 thereof firmly against the tapered sides 12 of the recess 10 in the dome-shaped member 11. This pressure may be applied directly by the end of the bolt 26, as shown in Fig. 5, or preferably through the intermediation of a cylindrical member 27, as shown in Figs. 2 and 3. By tightening the bolt 26, any desired pressure may be applied to the cylindrical portion of the supporting member 8, thereby increasing the resistance of the pen holder to movement in a vertical plane to any desired extent. It will be noted, also, that the application of pressure by means of the bolt 26 tends to force the dome-shaped member apart from the anchor member 14 and to press the lower side of the flange 15 against the swaged ring member 17, thereby applying pressure also to these members, and increasing the resistance to rotation. By the single adjustment, the resistance to rotation, both in a vertical and horizontal plane, may be regulated as desired. The member 27 may be provided with an aperture 28 adapted to receive a small quantity of lubricant, to facilitate uniform frictional resistance against the arcuate portion 9.

In certain instances, it may be desirable to provide a resilient frictional adjustment for the

cylindrical member 8. This may be done, as shown in Fig. 4, by interposing a spring 29 between the members 26 and 27. Such a spring tends to maintain an even tension on the parts and to compensate for irregularities therein.

In assembling the parts of the preferred embodiment, the supporting member 8 is inserted upwardly through the base of the dome-shaped member 11, so that the cylindrical surface 9 rests against the sides 12 of the recess 10. The stem of the supporting member is threaded into the pen receptacle 5. Thereafter, the anchor member 14 is inserted in the base of the member 11 and the ring 17 is swaged into the annular recess 18 to hold the member 14 rotatably in position. The lower end of the member 14 is then inserted through the aperture 20 in the base 2 and secured in position by the nut 21. The threaded member or bolt 26 is inserted into the central aperture 25 and adjusted to apply the desired pressure on the lower end 9 of the supporting member, which regulates the resistance both to horizontal and vertical movement of the pen holder. When a pen is placed in the receptacle portion 6, it may be adjusted either in a vertical plane or in an inclined plane, depending upon whether the rotation is about the cylindrical surface 9 or whether the dome-shaped member 11 is rotated in a horizontal plane about the anchor member 14. The adjustment in position may, of course, be a combination of these two adjustments, permitting universal movement of the pen holder on the base 2.

It will be seen that the present invention provides a pen desk set which is adapted to maintain a pen or the like in any desired position. The mounting means are adapted to be adjusted so that the pen receptacle is readily rotatable in both horizontal and vertical planes. The frictional adjustment means are adapted to be lubricated to facilitate movement of the parts and to maintain the frictional resistance constant. Preferably, the exterior parts of the desk set, except the base and the pen holder, are constructed of a durable non-corrosive metal. For this purpose, chromium plated fittings have been found highly satisfactory. The device provided herein is simple in construction, inexpensive to manufacture, and thoroughly capable of withstanding the rough usage to which it may be subjected.

As various changes may be made in the form, construction and arrangement of parts without departing from the spirit and scope of the invention and without sacrificing its advantages, it is to be understood that all matter herein is to be interpreted as illustrative and not in a limiting sense.

Having thus described my invention, I claim:

1. In a desk set, the combination of a base, a member extending transversely of and secured to said base having a flange portion substantially at the upper end thereof, a second member adapted to receive pen supporting means, and means extending about the flange portion for rotatably mounting said second member upon the flange portion of said transversely extending member.

2. In a desk set, the combination of a base, a member extending substantially vertically of and secured to said base having an integral flange portion at the upper end thereof, a second member adapted to receive and enclose the flange portion of said first member, and an annular member adapted to rotatably secure said second member upon said first member.

3. In a desk set, the combination of a base, a

member connected to said base having a flange substantially at the upper end thereof, a second member adapted to support pen receiving means, said second member having a recess formed therein, a ring member intermediate said flange and said second member disposed in the recess, adapted to rotatably mount said second member about said flange.

4. In a desk set, the combination of a base, an upright member secured to said base having a flange at the upper end thereof, a second member adapted to engage and hold pen receiving means, said second member having a recess therein adapted to receive the flange of said first member, and a bearing member secured to said second member and adapted to rotatably mount said second member about the flange of said first member, whereby said first and second members are mounted rotatably with respect to each other.

5. In a desk set, the combination of a base, a member extending upwardly through and secured to said base, a dome-shaped member rotatably mounted upon and enclosing the upper end of said upright member, means secured to said dome-shaped member for engaging the upper end of said upright member for rotatably connecting said members, said dome-shaped member being provided with a recess constricted substantially at the upper end thereof, and a member pivotally mounted in the recess and engaged by the constricted portions thereof.

6. In a desk set, the combination of a base, an upright member secured to said base having a threaded aperture therein, and an extension at the upper end thereof, a second member encasing the extension on said upright member and adapted to rotate about the vertical axis of said upright member, said second member being provided with a recessed portion, a third member pivotally mounted in the recess, a threaded member extending upwardly through said upright member, and a substantially cylindrical member mounted adjacent to and above said threaded member adapted to frictionally engage said pivoted member to hold it adjustably in position.

7. In a desk set, the combination of a base, a member secured to said base having a threaded aperture therein, a second member mounted upon and encasing the upper end of said first member and adapted to be rotated about the vertical axis of said upright member, said second member having a recess therein, a cylindrical member disposed in the recess adapted to be rotated about its horizontal axis, pen receiving means connected to said cylindrical member, a member threaded into the aperture of said upright member, and a metallic member adjacent to and above said threaded member adapted to frictionally engage said cylindrical member, said threaded member being adjustable to regulate the frictional contact between said metallic member and said cylindrical member.

8. In a desk set, the combination of a base, a member secured to said base having a flange at the upper end thereof, a second member mounted about the flange of said first member adapted to rotate about its vertical axis, a bearing member for rotatably connecting said second member about the flange of said first member, said second member having a recess therein, an arcuate member mounted in the recess adapted to rotate about its horizontal axis, and a pen holder connected to said arcuate member.

9. In a desk set, the combination of a base, a member secured to said base having a flange at

the upper end thereof, a second member mounted upon and encasing the flange of said first member, said second member being adapted to rotate about its vertical axis, a ring member for rotatably connecting said first and second members, said second member having a recess therein, an arcuate member mounted in the recess adapted to rotate about its horizontal axis, a pen holder connected to said arcuate member, and means threaded into and extending upwardly through said first member adapted to frictionally engage said arcuate member.

10. In a pen desk set, the combination of a base, a member secured to said base, a second member mounted upon said first member, and rotatable axially with respect thereto, a rotatable member disposed in said second member, and incompressible means threaded into and extending upwardly through said first member, the upper end of said threaded means being operatively connected to apply pressure against said rotatable member.

11. In a pen desk set, the combination of a member adapted to be secured to a base, a second member mounted upon said first member, a rotatable member disposed in said second member, means threaded into and extending upwardly through said first member, and means mounted above and adjacent to said threaded means adapted to frictionally engage said rotatable member.

12. In a pen desk set, the combination of a base, a member adapted to be secured to said base, a second member mounted on said first member, said second member having a recess therein which converges at the upper end thereof, a rotatable member disposed in the recess of said second member, pen holding means secured to said rotatable member, means threaded into and extending upwardly through said first member, and means mounted above said threaded means adapted to frictionally engage said rotatable member.

13. In a desk set, the combination of a base having an aperture therein provided with a shoulder portion, an upright member extending substantially through said aperture having a flange at the upper end thereof, a threaded member adapted to abut against the shoulder and secure said upright member to said base, a dome-shaped member rotatably secured to and enclosing the flange at the upper end of said upright member, said dome-shaped member having a recessed portion therein which is constricted substantially at the upper end thereof, a member having a substantially cylindrical surface pivotally mounted in the recess and adapted to be engaged by the constricted portion thereof, and means adapted to receive a writing instrument connected to said cylindrical member.

14. In a desk set, the combination of a base, a member secured to said base having a flange at the upper end thereof, a dome-shaped member mounted upon the flange of said first member adapted to enclose the flange and to rotate about the vertical axis thereof, a ring member secured within said second member and rotatably connecting said first and second members, said second member having a recess therein, an arcuate member mounted in the recess adapted to rotate about its horizontal axis, a pen holder connected to said arcuate member, a member threaded into and extending upwardly through said first member, and means above said thread-

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ed member adapted to frictionally engage said arcuate member.

15. In a pen desk set, the combination of a member adapted to be secured to a base, a second member mounted upon and encasing the upper end of said first member, a ring member secured to said second member adapted to engage the upper end of said first member and hold said second member rotatably thereon, a rotatable member disposed in said second member, means threaded into and extending upwardly through said first member, a resilient member above said threaded means, and means above said resilient member adapted to frictionally engage said rotatable member.

16. In a desk set, the combination of a base, an upright member secured to said base having a flange thereon provided with an enlarged upper end, a dome-shaped member having a recess therein to receive said flange, an annular member fitting into said recess and engaging the upper end of said flange to rotatably mount said dome-shaped member on said flange, pen receiv-

ing means operatively connected with said dome-shaped member, and means extending through said upright member adapted to vary the resistance to rotation of said dome-shaped member about said flange.

17. In a desk set, the combination of a base, an upright member secured to said base having an extension thereon, a second member having an annular recess therein adapted to receive the extension of said upright member, an annular member mounted in said recess rotatably securing said second member upon said upright member, said second member having a second recess therein, a member pivotally mounted in the recess, pen holding means secured to said pivoted member, and means extending through said upright member frictionally engaging the member pivoted in said recess to vary the resistance to rotation of said second member upon said upright member and also to vary the resistance of said pivoted member to oscillation.

HENRY KRAUSE.

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50	125
55	130
60	135
65	140
70	145
75	150