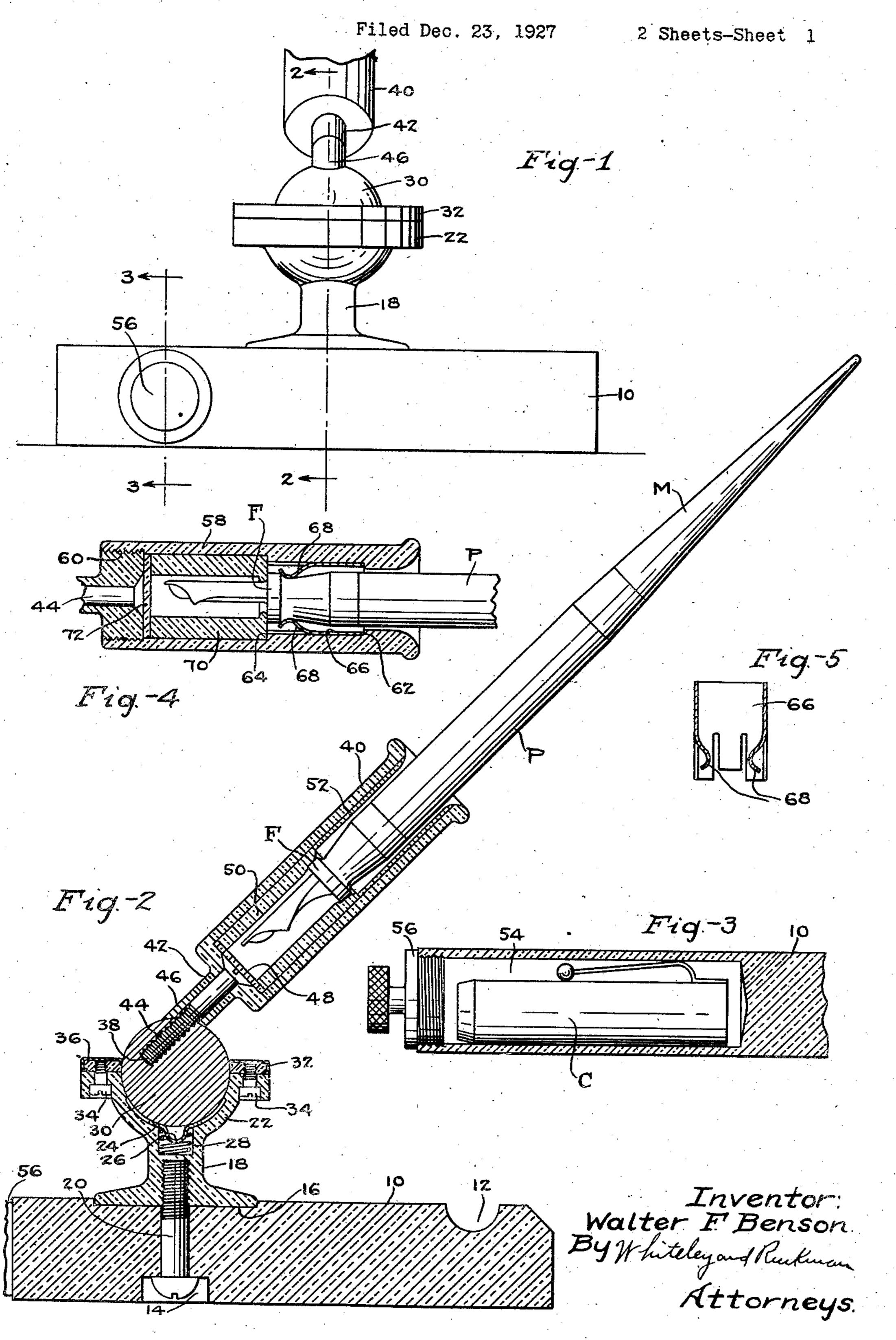
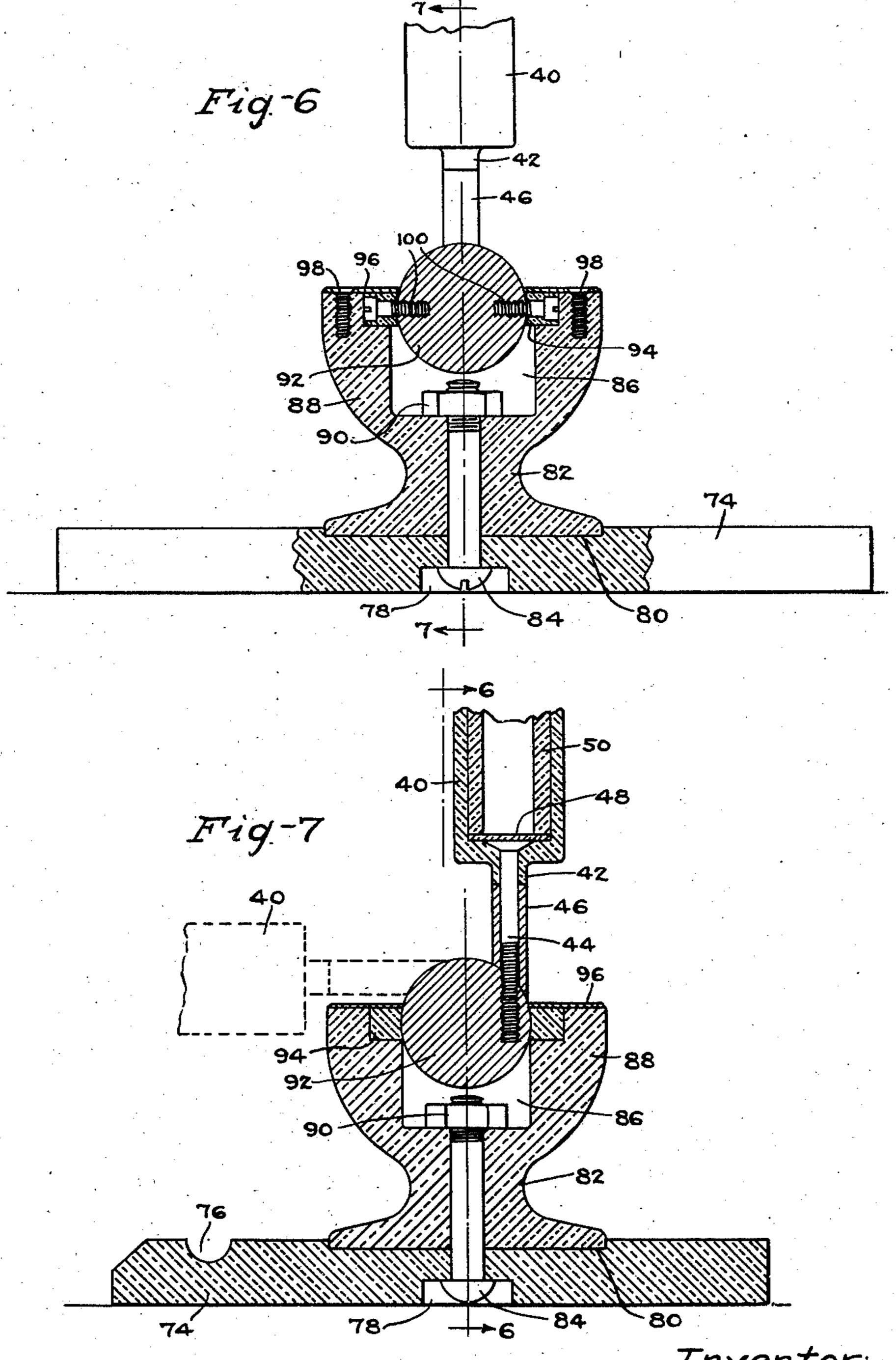
DESK SET



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UNITED STATES PATENT OFFICE

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DESK SET

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My invention relates to desk sets, and par- is held in place on the socket by means of ticularly to desk sets for holding fountain a ring 32 preferably of hard rubber secured pens. Among the objects of the invention to the upper side of the socket by screws 34. are the provision of improved means for sup-5 porting a pen receiving tube and the provision of efficient means for sealing the feed portion of the pen after insertion in the tube serves to give an ornamental appearance and in order to prevent the ink from drying out and clogging the pen.

The full objects and advantages of my invention will appear in connection with the detailed description thereof, and the novel features of my inventive idea will be particularly pointed out in the claims.

In the accompanying drawings which illustrate the application of my invention,—

Fig. 1 is an elevational view of the device fication in section on the line 6—6 of Fig. 7. Fig. 7 is a view in section on the line 7—7 of Fig. 6.

35 cess 16 which provides a seat for a post 18 rubber sleeve 52 secured in the upper por- 85 40 the post 18. The upper end of this post is is used in place of the tube 40. The lower end 90 placed in the bottom of the socket and this member 24 has a central downward projec-45 tion 26 which is surrounded by the upper end of a coiled spring 28 placed in a recess in the post which extends down from the curved surface of the socket. A ball 30 preferably of metal is placed in the socket 50 so as to rest on the member 24 and this ball

Fig. 2 shows a thin flanged ring 36 sprung over the ring 32. The ring 36 may be made 55 of gold or other high grade material and to cover the screws 34. The ball 30 is provided with a screwthreaded hole 38 which is off center and extends part way through the 60 ball. Cooperating with the ball 30 there is a hard rubber tube 40 having a nipple 42 extending out from its lower end. A screw 44 which is axially related to the tube 40 passes fixedly through the nipple 42 and through a 65 sleeve 46 having its lower end curved to fit upon the ball 30. The sleeve 46 permits the with the upper portion thereof broken away. tube 40 carrying the screw 44 to be turned so Fig. 2 is a view in section on the line 2-2 of that the screw may be turned down into the 20 Fig. 1 and showing a pen in place in the de- hole in the ball until the nipple 42 comes 70 vice. Fig. 3 is a view in section on the line firmly into engagement with the sleeve 46. 3-3 of Fig. 1. Fig. 4 is a sectional view of Mathematically stated, the tube and the ball a slight modification. Fig. 5 is a sectional are so positioned relatively to each other that view of a spring finger member before it is an extension of the axis of the tube coincides 25 assembled in the form of device shown in with a chord of a great circle of the sphere. 75 Fig. 4. Fig. 6 is a view of another modi- As shown, the chord lies substantially midway between the center and the circumference of the circle. For convenience the tube will be referred to as being secured to 30 As shown in the drawings, I provide a the ball in offset relation to the center thereof. 80 suitable base 10 having a groove 12 in its The tube 40 carries a hard rubber disk 48 in upper surface. The lower surface of the base its bottom lying over the head of screw 44. is provided with a recess 14 and the upper Above the disk 48 there is a soft rubber surface of the base contains a shallower re- sleeve 50 which is held in place by a hard preferably made of hard rubber. The recess tion of the tube 40 in suitable manner as by 14 receives the head of a screw 20 which sweating it in place. The base 10 contains a passes up through the base and is threaded recess 54 adapted to be closed by a screw plug into a screwthreaded hole in the lower end of 56. In the form shown in Fig. 4, a tube 58 made in the form of a socket 22. A cup of the tube 58 is internally threaded to remember or concaved piece of metal 24 is ceive the externally threaded end of a nipple 60. The interior of the tube 58 is provided with a circumferential shoulder 62 located near the upper end thereof and is provided 95 with a circumferential shoulder 64 about midway of the length of the tube. Before the nipple member 60 is secured in place, a sleeve 66 of resilient material is pushed into the tube from the bottom thereof so as to 100

engage the shoulder 62. The sleeve 66 is pro- cupied a radial position with relation to the vided with a plurality of spring fingers 68 ball. It is also evident that the tube can be for a purpose which will appear later. A turned around horizontally in addition to sleeve of soft rubber 70 is then pushed into have an up and down movement in a vertical the tube so as to engage the shoulder 64. plane. The spring 28 keeps the ball under 70 A hard rubber disk 72 is placed against the sufficient friction so that the tube and pen lower end of the sleeve 70 and then the nipple member 60 carrying the screw 44 is screwed against the disk 72. The tube 58 is obviously secured to the ball in the same

manner as the tube 40. and 7, there is a suitable base 74 having a 15 is shown as being thinner than the base 10 of the form previously described and it is not shown with the recess or compartment 54. The lower surface of the base 74 is provided 20 base contains a shallower recess 80 which pro- receiving a cap C adapted to be fitted upon 85 formed in the upper portion of the post which the upper portion of the pen is shown as con- 90 the bolt 84 holds the socket member securely thus carry the pen. In the form shown in 30 is held in the recess or socket of the socket and down in a vertical plane since the screws 95 in the case of the socket previously described turning in the ring 94. The degree of fricupon the bottom thereof. Different means is, determined according to how firmly the therefore, provided for holding the ball in the socket. As shown, the upper inner edge of the socket member 88 is rabbeted to provide an annular groove which constitutes a seat for a ring 94 preferably of hard rubber which 40 is held in place by an annular plate 96 of gold or other high grade material secured by screws 98. The ball 92 is secured to the ring 94 by two diametrically opposite screws 100 which pass horizontally through the ring and extend radially into the ball. A pen receiving tube 40 is secured to the ball in offset relation to the center thereof. It will be understood that the construction of the tube 40 may be the same as shown in Fig. 2 and further description thereof is therefore unnecessary, the same reference characters being employed to designate the parts which are associated with the tube 40. Attention may, however, be called to the fact that in this form member extending up from said base, a ball of the invention, the offset screw 44 occupies held in the socket of said member, said ball

vention will be apparent in connection with ball and member in frictional engagement the foregoing description. By attaching the with each other, a pen receiving tube, a sleeve 125 tube 40, or the tube 58, to the ball 30 in offset relation to the center thereof, it is evident that the tube carrying a pen P held therein straight transversely, and a screw axially can be turned further in a downward direc-65 tion than would be the case if the tube oc-

will be maintained in any desired position. When the pen is in place in the tube, the lower end of the pen carrying the nib and feed is effectively sealed by the soft rubber 75 sleeve. In the form shown in Fig. 2, the cir-In the form of invention shown in Figs. 6 cumferential flange F above the pen point is pushed into the upper end of the soft rubgroove 76 in its upper surface. The base 74 ber sleeve 50 to make the seal. In the form shown in Fig. 4, the spring fingers 68 engage 80 above the flange F and hold the lower surface thereof firmly in contact with the upper edge of the soft rubber sleeve 70 to make the seal. with a recess 78 and the upper surface of the The recess 54 provides a compartment for vides a seat for a post 82 preferably made of the pen P when it is desired to carry the same hard rubber. The recess 78 receives the head around separately from the base and the holdof a bolt 84 which passes up through the base ing tube. In order to make it convenient to and through the post 82 into a recess 86 carry the pen in the pocket or in a handbag, portion is enlarged to produce a socket mem- sisting of a tapered detachable end member ber 88. A nut 90 screwed on the upper end of M which may be removed when it is desired to to the base 74. A ball 92 preferably of metal Figs. 6 and 7, the tube 40 may be swung up member 88. The socket 86 is not rounded as 100 constitute trunnions which are capable of but is angular and the ball does not fit down tional engagement of the ball and socket is screws 100 are screwed down. The pen-receiving tube can also be turned around horizontally since the ring 94 is capable of rotative movement in its seat.

I claim:

1. A desk set comprising a base, a socket member extending up from said base, a ball held in the socket of said member, and a pen receiving tube secured to said ball in offset relation to the center thereof.

2. A desk set comprising a base, a socket member extending up from said base, a ball held in the socket of said member, said ball having a screwthreaded hole which is off center, a pen-receiving tube, and a screw axially 115 carried by said tube whereby the latter may be secured to said ball in off-set relation to the center thereof.

3. A desk set comprising a base, a socket a 90° relaion to the screws 100. having a screw-threaded hole which is off cen-The operation and advantages of my in- ter, means in said member for keeping said having a lower end which is curved to fit upon said ball and having an upper end which is carried by said tube whereby the latter may be secured to said ball in offset relation to the 130 center thereof upon passing said screw through said sleeve.

4. In a desk set, a base, a ball, means to mount the ball for universal movement, a pen b holder, and means to connect the pen holder to the ball to one side of the center of the ball.

In testimony whereof I hereunto affix my

signature.

WALTER F. BENSON.