March 26, 1929. W. GUYOT 1,706,662

DESK SET

Filed Jan. 26, 1926 2 Sheets-Sheet 1

Fig. 1

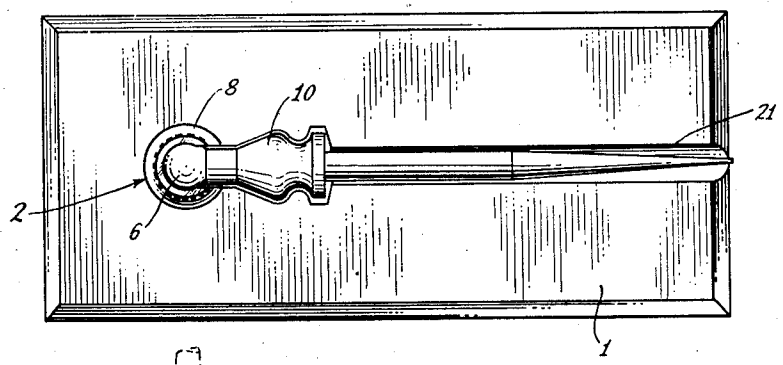


Fig. 2

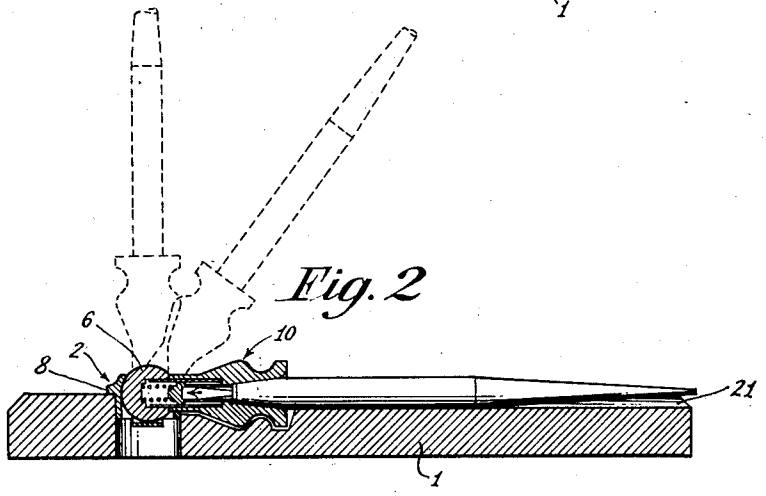
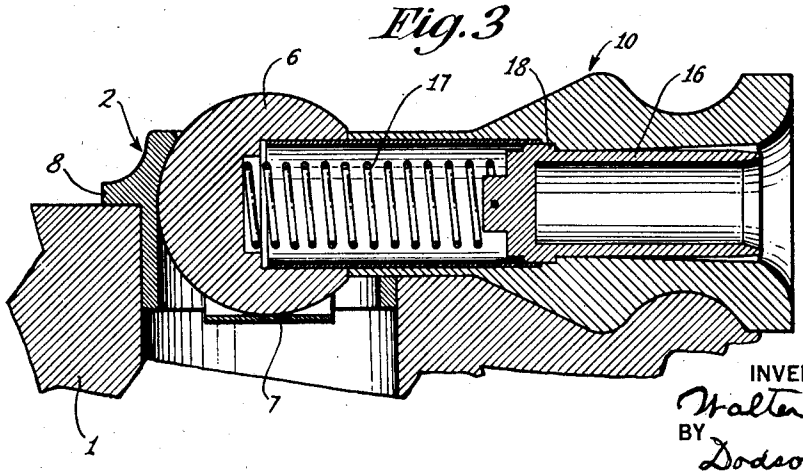


Fig. 3



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March 26, 1929. W. GUYOT 1,706,662

DESK SET

Filed Jan. 26, 1926 2 Sheets-Sheet 2

Fig. 4

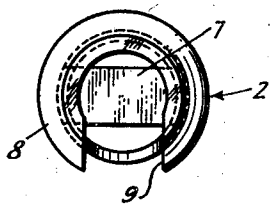


Fig. 6

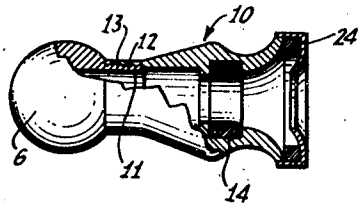


Fig. 5

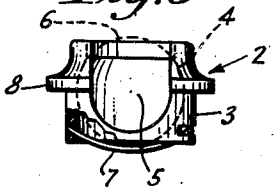


Fig. 7

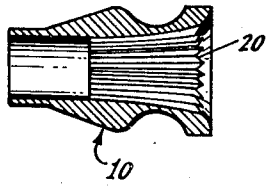


Fig. 8

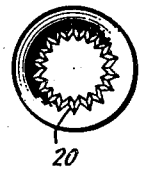


Fig. 10

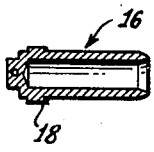


Fig. 9

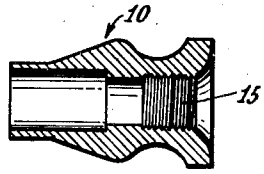


Fig. 11

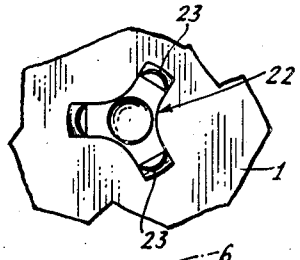
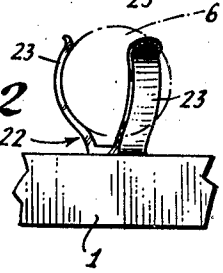


Fig. 12



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Patented Mar. 26, 1929. 1,706,662

UNITED STATES PATENT OFFICE.

WALTER GUYOT, OF JANESVILLE, WISCONSIN, ASSIGNOR, BY MESNE ASSIGNMENTS, TO PEN DESK SET COMPANY, A CORPORATION OF ILLINOIS.

DESK SET.

Application filed January 26, 1926. Serial No. 83,857.

It is well known that it is very difficult to keep pens and ink, which will always be ready for use, on a desk. If the ink is left open it quickly deteriorates, while the pens corrode from the ink and in a short time become useless.

My invention has for its object, to provide a desk set which will be equipped with a fountain pen which will always be ready for use when required, and to mount the same in a very convenient manner so that it will be available for use from any position from which it may be required.

My means of accomplishing the foregoing object and other objects hereinafter set forth and claimed in the appended claims will be more readily understood by having reference to the accompanying drawings, which are hereunto annexed, in which

Fig. 1 is a top or plan view of my improved desk set;

Fig. 2 is a side view, partly in section, of the same;

Fig. 3 is an enlarged sectional view of the pen-holding receptacle;

Figs. 4 and 5 are detail views of the socket;

Fig. 6 is an elevation, partly in section, of a modified form of receptacle;

Figs. 7 and 8 are longitudinal sectional views and end elevation, of a modified form of receptacle;

Fig. 9 shows a longitudinal section through a modified form of receptacle;

Fig. 10 is a sectional view of the sealing cup shown in Figs. 2 and 3;

Figs. 11 and 12 show a modified form of mounting device for the receptacle. Similar reference numerals refer to similar parts throughout the entire description.

As shown in the drawings, I provide a base 1 which is rectangular in plan, and approximately an inch in thickness. It may be understood from my hereinafter contained description that my invention is not limited to the use of any special form of base.

Upon the base 1 is mounted a holding member 2, which is constructed, as is clearly shown in the detail views, Figs. 4 and 5, with an annular wall 3, the inner surface of which is machined, as at 4, in a spherical shape so as to form a socket 5 for a ball 6 formed on the pen receiving receptacle 10. On the lower end of the holding member 2 is mounted a flat spring 7, which exerts tension against the ball 6, serving by frictional pressure to hold the ball 6 in any desired position, though any convenient means for producing the needed friction may be used.

The holder 2 is provided with a shoulder 8, which is adapted to abut the top of the base 1. The ball 6 and the pen receiving receptacle 10 may be made in one or more parts, drilled out on the inside to permit of the insertion of the pen point section of a fountain pen, a neck or stem 11 being provided on the ball 6, as clearly shown in Fig. 6. This neck or stem 11 is provided with threads 12, which are fitted to coincide and engage with threads 13 formed on the inside of the inner end of the pen receiving receptacle 10; although it may be found desirable in practice to make this a sliding fit instead of threading it, or it may be found desirable to make it slightly tapered. It will be apparent that no particular configuration of the pen receiving receptacle is necessary to the performance of its function, as any suitable ornamental appearance may be adopted.

The inside of the pen receiving receptacle 10 may be provided with a soft rubber washer 14 (Fig. 6) to hold the pen in place purely by friction, or it may be provided with threads 15, as in Fig. 9, the threads 15 being adapted to receive and engage the threads on the barrel of the fountain pen.

The preferable manner of equipping the inside of the pen receiving receptacle to hold the pen will be by forming a composition cup 16 which is clearly shown in Fig. 3. This cup is longitudinally slidable in the pen receiving receptacle 10 and is engaged by a coil spring 17 mounted in the hole drilled in the pen receiving receptacle 10. This spring 17 may extend into the ball 6, and is tensioned so as to exert a pressure which will tend to push the cup 16 against the barrel of the pen, thus insuring an airtight joint, so that when the pen is inserted into the cup 16 the gold pen point will be kept moist at all times. Means to prevent the spring 17 from pushing the cup 16 entirely out of the pen receiving receptacle 10, may be provided. As illustrated, a shoulder 18, formed on the cup 16, is provided for that purpose.

It may be found desirable in some instances to construct the pen receiving receptacle 10 with a plurality of corrugations or ribs 20, as shown in Figs. 7 and 8, this being

done in order to reduce to a minimum the liability of ink being transferred from the pen receiving receptacle 10 onto the pen holder. It also insures the speedy drying of any loose ink which may be deposited upon the corrugations 20. It will be apparent, of course, to persons skilled in the art, that the cup 16 and the spring 17 may be used in this construction as well as in the plain construction.

The spring 17 should be provided with sufficient tension to cause the cup 16 to follow the pen as it is withdrawn from the pen receiving receptacle 10, thus tending to eliminate any possibility of ink getting inside of the pen receiving receptacle 10. The spring 17 should also possess sufficient tension to exert enough pressure against the end of the barrel of the pen, not only to make the joint airtight, but also to prevent the pen leaking.

A recess 9 is formed in one side of the holder 2 to permit the pen-receiving receptacle 10 to be moved to a horizontal position as shown in Fig. 2. In order to enable the receptacle to be moved to this position with the particular arrangement shown in these figures, a groove, having the general configuration of the receptacle, as shown in Figs. 1, 2 and 3, may be provided in the base.

The pen-receiving end of the pen receiving receptacle 10 tapers inwardly, as is clearly shown in the drawings, so as to render it more convenient to insert the pen into the pen receiving receptacle 10. In some cases it may be found desirable to provide a cap 24, as shown in Fig. 6, which will thus provide a space between the point of entrance and the point where the pen engages the rubber washer 14, or the wall of the hole drilled in the pen receiving receptacle 10, thus to insure a clean pen holder even should the pen drop some ink.

It may be found desirable in some instances, to provide a modified form of socket 22, as shown in Figs. 11 and 12, in which the socket 22 is formed of three fingers 23, which are conformed to the spherical contour of the ball 6, the resiliency of the metal out of which said fingers 23 are constructed serving to exert sufficient pressure upon the surface of the ball 6 to retain it in any desired position.

It will be apparent, from the hereinbefore contained description, that it is possible, with a device of this character, to have the pen lying down on the base, so that it can be conveniently and safely placed within a desk when it is to be closed down. At the same time, by mounting the pen receiving receptacle 10 as I do, in a manner which permits it to swing in any desired direction and toward any and every point of the compass above the plane of the base 1 upon which the socket 5, or the socket 22, as the case may be, is secured, it is possible for the pen to be moved to any angle that suits the convenience of the user.

Although I have shown and described several forms of construction for the pen receiving receptacle, it will be understood that these drawings are furnished for illustrative purposes only, and I do not wish to be understood as limiting myself to the specific details shown and described, except as such limitations may appear in the hereinafter contained claims.

Having thus described my invention, what I regard as new, and desire to secure by Letters Patent of the United States, is:

1. A holder for fountain pens, comprising a receptacle into which the pen point section may be inserted, a ball on said receptacle, a socket in which said ball swings, and a base in which said socket is mounted.

2. A holder for fountain pens, comprising a receptacle into which the pen point section may be inserted, a ball on said receptacle, a socket in which said ball swings, and a base in which said socket is mounted, there being a groove in said base in which the pen may rest.

3. A fountain pen receiving receptacle, there being a central opening into which the pen point section may be inserted, a cup slidably mounted in said opening, which engages the barrel of the pen adjacent the pen point section.

4. A fountain pen receiving receptacle, there being a central opening into which the pen point section may be inserted, a cup slidably mounted in said opening, which engages the barrel of the pen adjacent the pen point section, a spring which presses said cup against said barrel when the pen is inserted into the receptacle.

5. A fountain pen receiving receptacle, there being an opening in the center of said receptacle, sliding means mounted in said receptacle to exclude the air from the pen point section when the pen is inserted into the receptacle.

6. A fountain pen receiving receptacle, there being a central opening into which the pen point section may be inserted, a cup loosely and slidably mounted in said opening, which engages the barrel of the pen adjacent the pen point section.

7. A fountain pen receiving receptacle, there being a central opening therein, spring actuated means mounted in said receptacle to exclude the air from the pen point section when the pen is inserted into the receptacle.

8. A holder for fountain pens, comprising a receptacle into which the pen point section may be inserted, a ball on said receptacle, a socket in which said ball swings, a base in which said socket is mounted, means to exert a pressure on said ball when in said socket.

9. A fountain pen receiving receptacle,

there being a central opening into which the pen point section may be inserted, a cup slidably mounted in said opening, which engages the barrel of the pen adjacent the pen point section, a spring which presses said cup against said barrel when the pen is inserted into the receptacle, means to prevent said spring ejecting said cup from said receptacle when the pen is withdrawn.

10. In a desk set, a base, a socketed pen-receiving receptacle, and a spherical seat and a spherical member, one associated with the base and the other associated with the receptacle, the spherical member cooperating with the spherical seat to permit lateral and vertical adjustments of the pen receptacle to any desired position relative to the base.

11. In a desk set, a base, a socketed pen-receiving receptacle, a spherical seat and a spherical member, one associated with the base and the other associated with the receptacle, the spherical member cooperating with the spherical seat to permit lateral and vertical adjustments of the pen receptable to any desired position relative to the base, and means for pressing said spherical member against the seat to retain the receptacle in any selected position.

12. In a desk set, a base, a socketed pen-receiving receptacle, a spherical seat and a spherical member, one associated with the base and the other associated with the receptacle, the spherical member cooperating with the spherical seat to permit lateral and vertical adjustments of the pen receptable to any desired position relative to the base, and spring means for pressing said spherical member against the seat to retain the receptacle in any selected position.

13. In a desk set, a base, a pen-receiving receptacle, a socket member and a ball member seated therein, one of said members being associated with the receptacle and the other with the base to permit the receptacle to be swung to any desired position of adjustment and the wall of the socket member having a recess to permit the receptacle to be swung to a substantially horizontal position with respect to the base.

14. In a desk set, a base, a pen-receiving receptacle, a member mounted in the base and provided with an opening, means on said receptacle and associated with said member to permit the receptable to be swung to various angular positions of adjustment, and spring means within said opening of said member and cooperating with said means to resiliently retain the receptacle in its various positions of adjustment.

15. In a desk set, a base having an opening, a pen-receiving receptacle, a member having a recess and a member having a portion positioned in said recess to permit the receptacle to be swung vertically to various positions of adjustment, one of said members being mounted in the opening in the base and the other being connected to said receptacle, and concealed spring means mounted in one of said members and cooperating with the other to retain the receptacle in its various positions of adjustment.

16. In a desk set, comprising in combination, a base, an open-top socket having an arcuate bearing portion carried by the base, a rotatable member having an arcuate surface mounted in the socket, the upper portion of the socket being so arranged as to prevent the rotatable member being drawn therethrough, a receiving receptacle detachably secured to the rotatable member, and means for forcing the rotatable member into close frictional contact with the socket whereby the rotatable member and the parts supported by it may be swung to and yieldably held in various positions of angular adjustment.

17. In a desk set, comprising in combination, a base adapted to rest flat-wise on a desk, an open-top socket having an arcuate bearing portion carried by the base, a rotatable member having an arcuate surface so mounted in the socket as to prevent it being drawn through the open top of the socket, a receiving receptacle secured to the rotatable member, a device removably mounted in the holder, and means for forcing the rotatable member into such frictional contact with the socket as to permit the receiving receptacle to be swung with slight pressure to various positions of angular adjustment and to be held in such positions when adjusted thereto.

18. In a desk set, the combination of a base adapted to rest flat-wise on a desk, an open-top socket carried by the base, a ball frictionally engaged by the socket and of greater diameter than the mouth of the socket to prevent separation therefrom, a receiving receptacle connected to the ball and extending away from the socket, and means for forcing the ball into frictional engagement with the inner surface of the socket, whereby a frictional braking contact is maintained between the ball and socket, and the receiving receptacle so held as to be swung by slight pressure into various angular positions relative to the base and maintained by said braking contact in any of the various positions of angular adjustment without the necessity of adjusting or manipulating said means.

19. In a desk set, a receptacle, a base, means mounting the receptacle on the base for rotation of the receptacle and movement of the receptacle to different angular positions including a position substantially flat upon the base, and means for frictionally resisting rotation of the receptacle.

20. In a desk set, a receptacle, a base, means mounting the receptacle on the base for rotation of the receptacle and movement of the receptacle to different angular positions including a position substantially flat upon the base, and means for frictionally resisting angular displacement and rotation of said receptacle.

21. In a desk set, a base, a receptacle mounted therein for rotation, and spring means for frictionally resisting rotation of the receptacle with respect to the base.

22. In a desk set, a base, a receptacle mounted therein for rotation and change of angular position, and tensioning means for frictionally resisting rotation and angular displacement of said receptacle.

23. In a desk set, a base with a circular opening therein, a pen-receiving receptacle rotatably mounted in said opening, means to tensionally seat and secure the receiving receptacle in the base for rotation under tension.

24. In a desk set, a base, a pen-receiving receptacle rotatably mounted in said base, with means to tensionally seat and secure the receiving receptacle in the base for rotation under tension.

WALTER GUYOT.