Aug. 5, 1930. W. E. GUYOT 1,772,000

DESK SET RECEPTACLE AND GRIPPER

Filed July 5, 1929

Fig. 1.

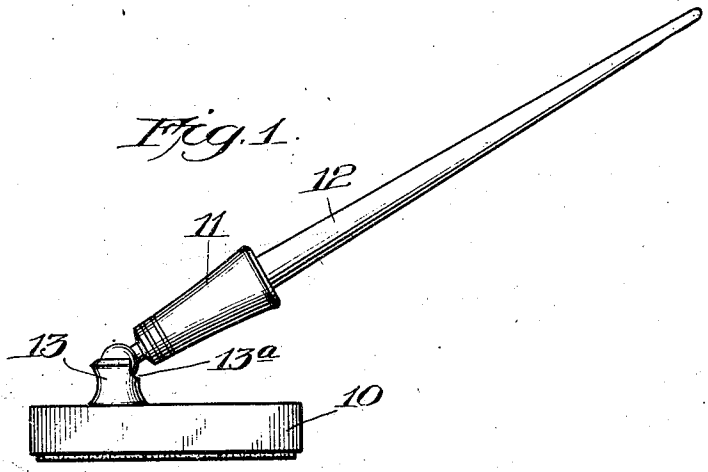


Fig. 2.

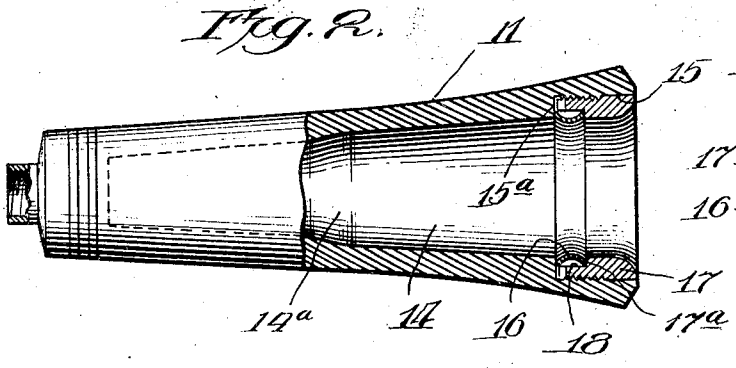


Fig. 3.

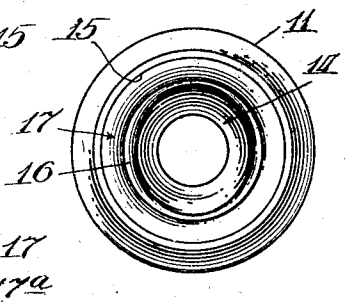


Fig. 4.

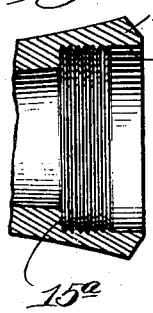


Fig. 5.

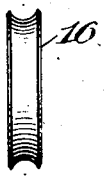


Fig. 6.

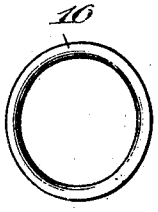


Fig. 7.

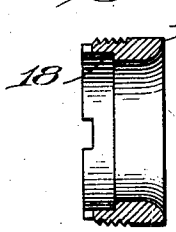


Fig. 8.

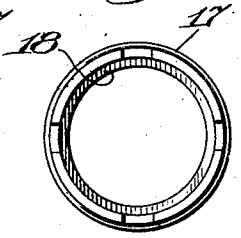
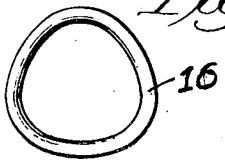


Fig. 9.



Inventor:
Walter E. Guyot
By Rector, Hibben, Davis & Macauley Attys

Patented Aug. 5, 1930 1,772,000

UNITED STATES PATENT OFFICE

WALTER E. GUYOT, OF JANESVILLE, WISCONSIN, ASSIGNOR TO THE PARKER PEN COMPANY, OF JANESVILLE, WISCONSIN, A CORPORATION OF WISCONSIN

DESK-SET RECEPTACLE AND GRIPPER

Application filed July 5, 1929. Serial No. 375,957.

My invention relates generally to desk sets and has to do particularly with an improved form of receptacle for receiving the writing instrument and an improved gripper means for yieldably supporting and retaining the writing instrument in position within the receptacle.

One of the objects of my invention is to provide a novel form of flexible metal gripper device which is adapted to yieldably support and retain writing instruments of different body sizes, within the receiving receptacle. More specifically, my invention provides a resilient gripper device which takes the form of a ring so constructed and retained within the receptacle that its ring-wall is yieldably engageable by a writing instrument having a body of predetermined minimum size or width and such wall portion is yieldable or expansible to grippingly receive and accommodate writing instruments having bodies of the maximum size or width insertable within the receptacle.

Another object is to provide improved means for positively holding and retaining the gripper device within the receiving-receptacle and in such position that it may freely yield or expand to support and retain the writing instrument. More particularly, my invention provides for the use of a gripper-retaining cap or ring detachably supported by the inner wall of the receptacle and so related to the receiving end of the receptacle that such retaining cap or ring is substantially concealed, but is readily removable.

A further object of my invention is to provide a retaining cap or ring of the foregoing character which, in its assembled position, serves as the inner receiving-end-wall part of the receiving receptacle and which is slightly flared to facilitate insertion of the writing end of the writing instrument into the receptacle.

Other objects and advantages will become apparent as this description progresses and by reference to the drawing wherein,—

Figure 1 is an elevational view of one form of desk set structure embodying my invention;

Fig. 2 is an enlarged, partial sectional, view of the receiving receptacle of Fig. 1;

Fig. 3 is an end view of the structure of Fig. 2;

Fig. 4 is a fragmental view showing the end portion of the receiving receptacle with the gripper and its retaining ring removed therefrom;

Fig. 5 is an edgewise view of the gripper;

Fig. 6 is a plan view of the gripper of Fig. 5;

Fig. 7 is a separated sectional view of the gripper retaining ring or cap;

Fig. 8 is a bottom plan view of the structure shown in Fig. 7; and

Fig. 9 is a plan view of a modified form of gripping device.

My invention has utility in any kind of desk set structure; but, merely for purposes of illustration, I have shown my invention in its application to the well-known "Parker" desk set.

Referring particularly to Fig. 1 of the drawings, the desk set shown therein comprises generally a base 10, a receiving receptacle 11 adapted to receive a fountain pen 12 or other writing instrument. The receptacle is mounted upon the base by means of a ball and socket structure 13, the socket of which is provided with a side slot or recess 13ª which permits the receptacle 11 to be swung down toward the base to a position substantially horizontal with respect to the base.

The receiving receptacle 11 which may be of slight taper shape is provided with a slightly tapering bore 14 in which is received the writing end of the writing instrument 12. In the use of the desk set for supporting a fountain pen, it may be desirable to have the writing end of the pen substantially sealed within the receptacle to exclude the atmosphere from such writing end to maintain the writing end of the pen in a moist condition for ready writing at all times. To that end, any suitable sealing means may be employed and I, preferably, provide a slightly increased taper 14ª at a central, or other desired, part of the receptacle against which the nib or pen section of the pen seats when it is inserted within the receptacle.

It is desirable that the writing instrument be freely insertable in and withdrawable from the receptacle, and, at the same time, be supported and retained so as to not be accidentally displaced. This is very desirable in desk set structures wherein the receptacle is movable to various angular positions, including a position substantially horizontal with respect to the base, as is the case with the above-described desk set structure. One of the principal objects of my invention has to do with gripping means for so supporting and retaining the writing instrument in position, and such means will now be described.

Referring to the structure of Figs. 1 to 8, inclusive, the outer or receiving end of the receptacle has an enlarged bore 15 providing at the inner end of such bore a ledge or shoulder 15ª. An oval-shaped ring 16 formed of a continuous band of flexible metal semi-circular in cross section is mounted upon the ledge or shoulder 15ª with part of its smooth, inner rolled ring-wall surface disposed inwardly of the receptacle wall and along the path of insertion of the writing instrument. The major axis of this ring is such that the ring is firmly seated and supported upon the ledge or shoulder 15ª.

While in Figs. 3 and 6 I have shown the ring 16 as of a uniform oval shape, I do not desire to be limited to that particular shape because it is obvious that such shape may be varied without departing from my invention. For example, see Fig. 9 wherein the ring is shown as having a somewhat irregular oval and three-sided shape. In this form, as with that of Fig. 6, part of the ring-wall surface projects into the path of the writing instrument. Further, if desired, the gripper rings or bands may be split crosswise at one point to aid further in the flexing, yielding or expansion action of the same.

To secure the gripper ring in place, I employ a retainer band or head 17 which has its inward part screw-threaded into the enlarged bore 15 of the receptacle. The inward edge of the inner wall surface of this ring is formed to provide an enlarged bore 18 in which the outward edge part of the gripper ring is received when the retaining ring 17 is screwed into place, as best illustrated in Fig. 2. The exterior surface of the retaining ring 17 and the adjacent surface of the enlarged bore 15 are not threaded throughout their length thereby predetermining the extent to which the retaining ring may be screwed into the receptacle bore. The extent to which the retaining ring may be screwed into the receptacle bore is such that the cap shoulder part 17ª, while snugly engaging the adjacent edge of the gripper ring, does not prevent free yielding and spreading movement of the ring when a writing instrument is inserted in the receptacle.

In the use of my invention, the minor axis or lesser-width part of the gripping ring is such as to grippingly engage and accommodate writing instruments, such as pens and pencils, of predetermined smaller or minimum size, and this ring is capable of such flexing or expansion to accommodate similar writing instruments of larger size and of the maximum size insertable within the receptacle. With this arrangement when the writing instrument, take for example a fountain pen, is inserted in the receptacle and sealed normally at 14, the pen will be held in that position during and after movement of the receptacle to any of its angular positions with respect to the base, whereby under all conditions the pen-writing point is maintained in its proper, moist, flow-feed, writing condition and ready for instant use. Obviously, my gripper serves to hold the writing instrument in desired position within the receptacle, regardless of the form and manner of mounting the receptacle to be readily grasped and withdrawn from the receptacle, at the same time preventing accidental displacement.

While I have shown only two forms of structure embodying my invention, it will be understood that other changes in details and arrangements of parts may be made without departing from the spirit and scope of my invention as defined by the claims which follow.

I claim:

1. In a desk set, a writing instrument receiving receptacle having an opening therein, and a writing instrument gripper comprising an oval-shaped ring of resilient metal mounted in said receptacle and with its minor axis part extending out into said opening in the path along which a writing instrument passes when inserted in said receptacle.

2. In a desk set, a writing instrument receiving receptacle having an opening therein with an enlarged bore in its receiving end, and an oval-shaped ring formed of resilient metal mounted in said bore with its major axis approximating the diameter of said enlarged bore.

3. In a desk set, a writing instrument receiving receptacle having an opening with an enlarged bore at its receiving end, a gripping device comprising an oval-shaped ring formed of resilient metal mounted in said bore with minor axis part extending into the path of the writing instrument inserted in said receptacle, and detachable means mounted in said bore for securing said ring in place within the receptacle but permitting free flexing of said ring.

4. In a desk set, a writing instrument receiving receptacle and gripping means mounted within said receptacle and comprising a flexible metal ring of oval-shape and of such size along its minor axis as to grip-

pingly receive writing instruments of a predetermined minimum body size and expansible to grippingly receive writing instruments of maximum body size insertable in said receptacle.

5. In a desk set, a writing instrument receiving receptacle having a shoulder therein and gripping means mounted within said receptacle upon said shoulder and comprising a flexible metal ring of oval-shape and of such size along its minor axis as to grippingly receive writing instruments of a predetermined minimum body size and expansible to grippingly receive writing instruments of maximum body size insertable in said receptacle, and means for retaining said ring upon said shoulder free to expand and contract as the writing instrument is inserted in the receptacle.

6. In a desk set, a writing instrument receiving receptacle, and a gripping device mounted therein comprising a band of resilient metal semicircular in cross-section, said band having a part of its curved inner surface disposed in writing-instrument-receptacle-path to yieldably engage a writing instrument inserted therein.

7. In a desk set, a receiving receptacle, and writing instrument gripping means mounted in said receptacle and comprising a continuous band of resilient metal formed inwardly to a shape semi-circular in cross-section, said band being of oval-shape and presenting its smooth, inner, curved surface tangentially to a writing instrument inserted in said receptacle.

8. In a desk set, a writing instrument receiving receptacle having an enlarged bore adjacent its receiving end, gripping means mounted in said receptacle and comprising an oval-shaped band of resilient metal formed inwardly to a shape semi-circular in cross-section and having one edge seated in the base of said enlarged bore, and a retaining ring screw threaded into said enlarged bore and having an enlarged bore at its inner end in which the other edge of said band is seated, the extent to which said ring may be screwed into said receptacle enlarged bore being limited to permit free yielding movement of said band.

9. A gripper adapted to be mounted in the writing instrument receiving-receptacle of a desk set which comprises a continuous band of flexible metal, oval-shaped in circumferential contour, said band being formed inwardly to a semi-circular cross-sectional shape.

In testimony whereof, I have subscribed my name.

WALTER E. GUYOT.