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PEN GRIPPING DEVICE

Filed Oct. 1, 1926

Fig. 1

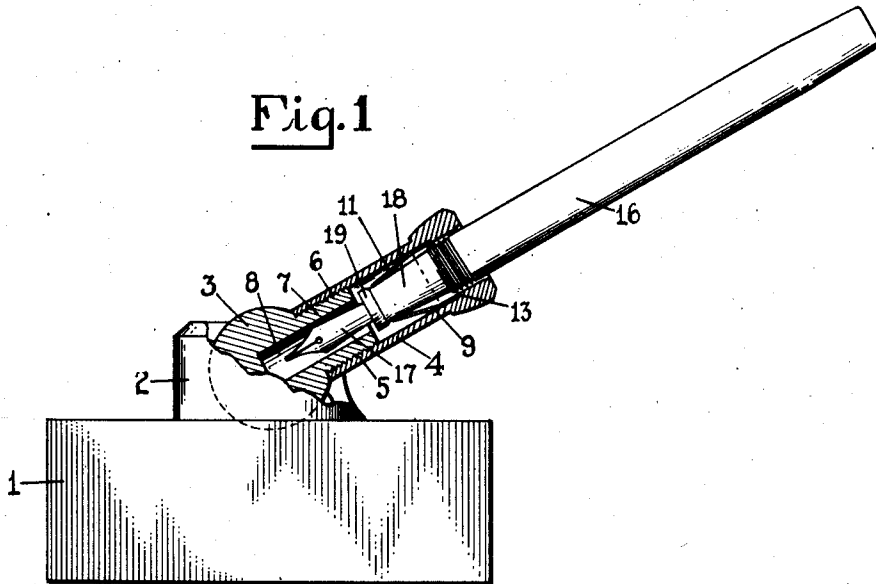


Fig. 3

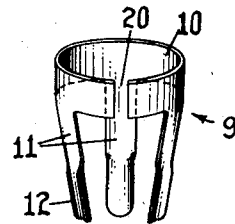


Fig. 2

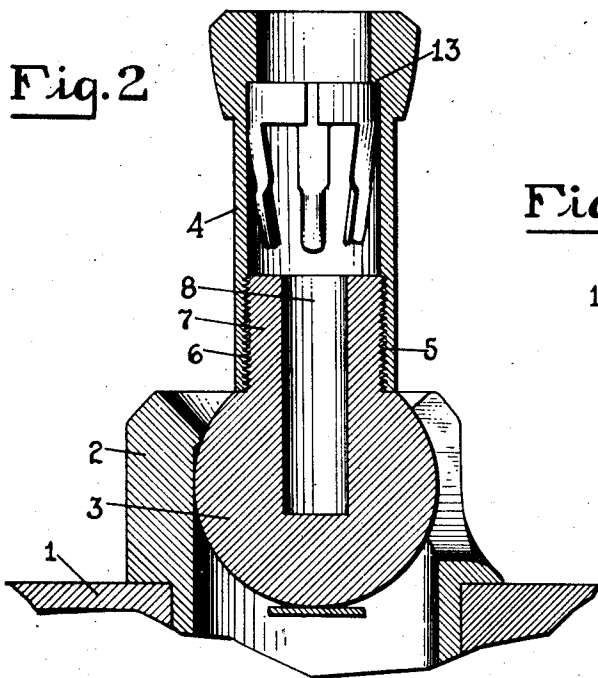
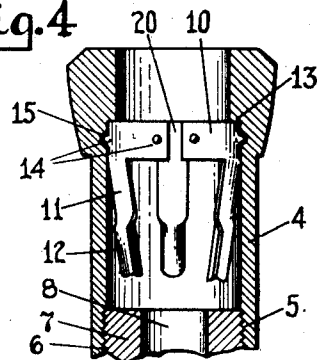


Fig. 4



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## PEN-GRIPPING DEVICE.

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Our invention relates to that class of devices known as desk sets for fountain pens, in which a pen receiving receptacle is secured to a base, and has for its object to provide an improved means of securing the pen in the receptacle.

Our means of accomplishing the foregoing object may be more readily comprehended by having reference to the accompanying drawings, which are hereunto annexed and are a part of this specification, in which—

Fig. 1 is a side elevation of a desk set equipped with our improvement, a portion of the pen receiving receptacle being broken away, showing the interior construction;

Fig. 2 is a vertical sectional view of the pen receiving receptacle, showing our improvement mounted therein, only a fragmentary portion of the base being shown;

Fig. 3 is an enlarged detail view of our improvement;

Fig. 4 is an enlarged detail view of our improvement, showing a fragmentary portion of the pen receiving receptacle with means to prevent longitudinal movement of the pen gripper.

Similar reference numerals refer to similar parts throughout the entire description.

As shown in the drawings, a base 1 is provided with a socket 2, in which may be mounted a ball 3, which is preferably on the lower end of the pen receiving receptacle 4. As is clearly seen from the drawings, the pen receiving receptacle 4 comprises a cylindrical sleeve, the lower end 5 of which is provided with internal threads which are fitted to, and coincide with, threads 6 cut upon a neck or stem 7, formed on the ball 3. This neck or stem 7 is provided with a central opening 8, into which the pen point 17 enters, as is clearly seen in Fig. 1.

Our improved pen securing means 9 comprises an annular portion 10 formed of resilient material, and is provided with a vertical slot 20. It has a plurality of downwardly extending fingers 11 which are bent inwardly slightly. The edges 12 of these fingers 11, for a portion of their length, are preferably turned back, so as to present a smooth surface to the pen point section 18 of the pen 16, and thereby avoid scratching the same, though this construction is not absolutely essential.

The pen gripper, or securing means, 9, is

mounted in the pen receiving receptacle 4 adjacent its upper end, and abuts a shoulder 13 formed on the internal wall thereof, so as to insure an uninterrupted surface for the entrance of the pen 16. Normally, the resiliency of the annular member 10 will be found sufficient to hold it in position, but in some instances it may be found desirable to provide bosses 14 on the member 10, which are fitted to a corresponding groove or recess 15 in the pen receiving receptacle 4, and effectually prevent any longitudinal movement of the pen gripper 9.

The operation of the device is as follows:

The pen gripper 9 is placed in the position shown in Fig. 4, being pressed in until the annular member 10 abuts the shoulder 13, in which position the bosses 14 will be brought into register with the groove 15, the resiliency of the metal forcing the annular member 10 outwardly and causing the bosses 14 to enter the said groove 15. The pen receiving receptacle 4 is then screwed on to the neck 7 of the ball 3. The pin 16 is then inserted, the pen point 17 entering the central opening 8 formed in the ball 3. The pen point section 18 will spread the fingers 11 until the shoulder 19 formed on the end of the pen point section 18 has passed the ends of the fingers 11, when the resiliency of the metal will cause them to spring inwardly and assume their normal position, thus holding the pen 16 against any accidental dislodgment, and yet permitting its easy withdrawal when its use is required.

It is desirable that this pen gripper 9 should be preferably formed of a non-corrosive resilient material, and it form a very satisfactory and desirable means of gripping the pen in a pen receiving receptacle of the type desired, without liability of getting it out of order.

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

1. The combination, with a pen holding receptacle, of a pen gripper formed of resilient material and designed to be inserted in the pen holding receptacle, said gripper comprising an annular member, a plurality of fingers which extend from one side thereof, said fingers being bent slightly inwardly.

2. The combination, with a pen holding receptacle having an internal shoulder ad-

5 jacent one end, of a pen gripper mounted in said receptacle and abutting said shoulder, the said pen gripper comprising a slotted annular portion, a plurality of fingers which extend from one side thereof, said fingers being bent slightly inwardly.

10 3. The combination, with a pen holding receptacle having an internal shoulder adjacent one end, of a pen gripper mounted in said receptacle and abutting said shoulder, the said pen gripper comprising a slotted annular portion, a plurality of fingers which extend from one side thereof, said fingers being bent slightly inwardly, a portion of the edges of said fingers being turned back.

20 4. The combination, with a pen holding receptacle having a ball on one end, there being a neck or stem on said ball, threads cut thereon which are fitted to threads cut on the internal wall of the pen holding receptacle, there being a central opening in said stem into which the pen point may enter, of a pen gripper formed of resilient material mounted in said receptacle, and means

to prevent the longitudinal movement thereof.

5. The combination, with a pen holding receptacle, of a pen gripper formed of resilient material, said gripper comprising a slotted annular member, a plurality of bosses thereon adapted to engage a groove formed in said receptacle, a plurality of fingers on said annular member which extend downwardly and inwardly.

35 6. A pen gripper formed of resilient material and designed to be inserted in the pen holding receptacle, comprising a slotted annular portion, a plurality of fingers which extend from one side thereof, said fingers being bent inwardly.

40 7. A pen gripper formed of resilient material and designed to be inserted in the pen holding receptacle, comprising a slotted annular portion, a plurality of fingers which extend from one side thereof, said fingers being bent inwardly, a portion of the edges of said fingers being turned back.

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