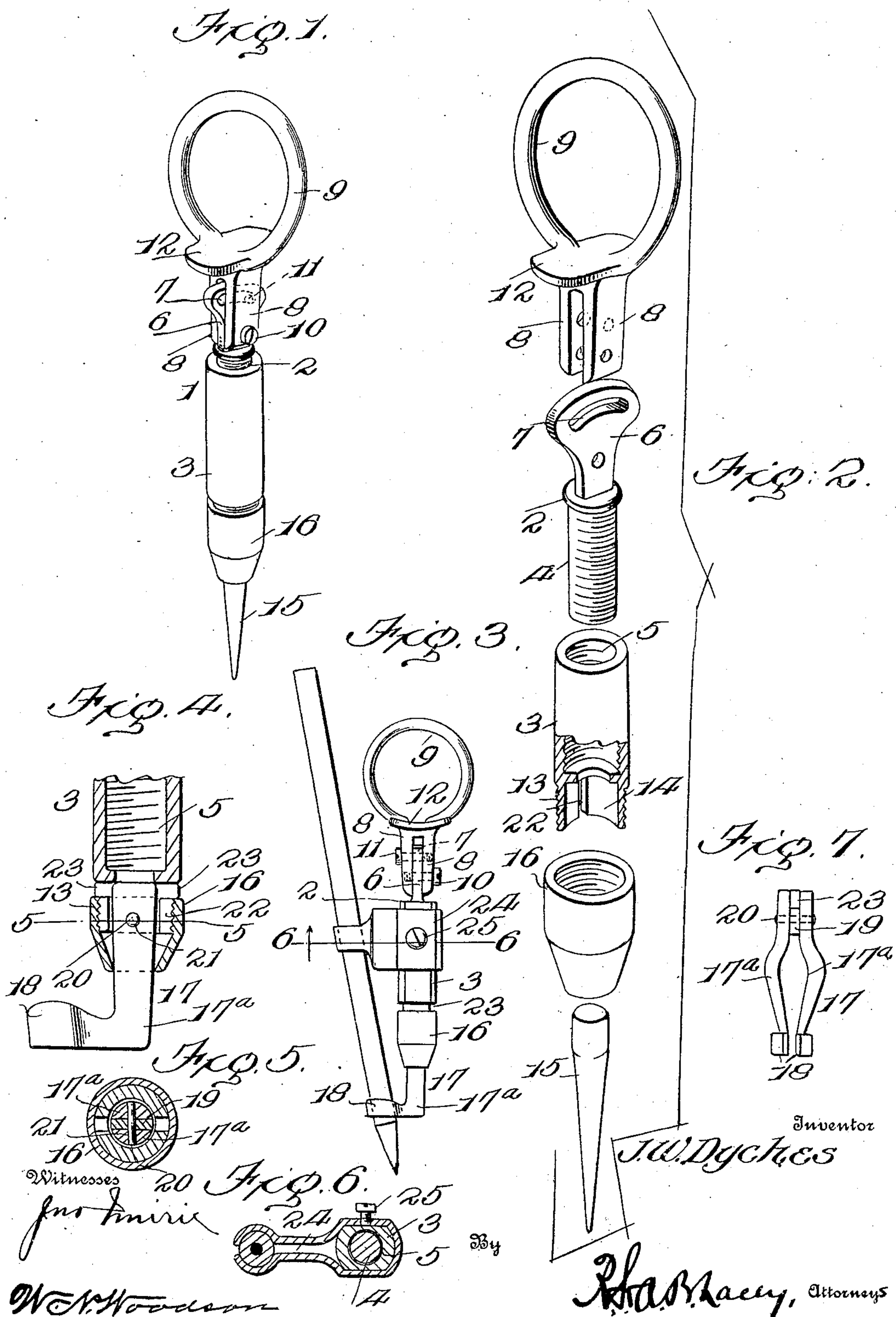


J. W. DYCHES.
 WRITING INSTRUMENT.
 APPLICATION FILED OCT. 17, 1908.

938,654.

Patented Nov. 2, 1909.



UNITED STATES PATENT OFFICE.

JOHN W. DYCHES, OF FORNEY, TEXAS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN W. DYCHES, citizen of the United States, residing at Forney, in the county of Kaufman and State of Texas, have invented certain new and useful Improvements in Writing Instruments, of which the following is a specification.

This invention comprehends certain new and useful improvements in writing instruments of that type which are particularly adapted for use in manifolding wherein carbonized paper is interposed between the sheets of writing paper and it becomes necessary to bear heavily upon the manuscript in order to obtain a clear copy of the same.

The object of this invention is an improved and attractive device of this character which is so arranged that considerable pressure may be exerted upon the instrument without cramping the hand or subjecting the fingers to excessive strain, thereby permitting the manifolding to be accomplished with greater efficiency and ease, and rendering the device desirable for use by clerks, particularly telegraph operators who have to handle long train orders and make many copies of the same. And a further object of the invention is an improved holder which is primarily designed to carry a stylus, but which is also susceptible of being equipped with a pencil or pen, and which has its parts so arranged that the change may be quickly effected, said instrument possessing certain other advantages, that will at once become apparent as the invention is disclosed, over the devices generally employed for this purpose.

With these and other objects in view that will more fully appear as the description proceeds, the invention consists in certain constructions and arrangements of the parts that I shall hereinafter fully describe and then point out the novel features thereof in the appended claims.

For a full understanding of the invention and the merits thereof, and to acquire a knowledge of the details of construction, reference is to be had to the following description and accompanying drawing, in which:

Figure 1 is a perspective view of my improved holder, showing it equipped with the stylus; Fig. 2 is a similar view thereof, showing the parts in juxtaposition; Fig. 3 is a side elevation, showing the holder as equipped with a pencil; Fig. 4 is a detail sectional view of the lower end of the body

portion; Fig. 5 is a transverse section on the line 5—5 of Fig. 4; Fig. 6 is a similar section taken on the line 6—6 of Fig. 3; and Fig. 7 is a detail edge view of the spring clip for engaging the end of a marking element.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawing by the same reference characters.

In carrying out my invention, I provide a body portion 1, which may be of any desired or approved construction or design and formed from any suitable material, such as brass, and which, in the present instance, is composed of two sections 2 and 3 that are detachably coupled together in any suitable manner, as by a threaded element 4 formed at one end of the section 2 and working in a threaded sleeve 5 formed in the adjacent end of the section 3. The section 2 terminates at its other end in a comparatively flat sector-like head 6 which is formed at its extremity with a segmental slot 7 for a purpose to be presently disclosed. This head 6 is interposed between two outwardly disposed substantially parallel ears 8 formed on a finger ring 9, and a pivot connection is established between the body portion and the finger ring by means of a pivot screw 10 or the like which extends transversely of the ears and passes through the head at a point short of the slot, a second screw 11 being also mounted in the ears and working in the slot and serving as a stop to limit the movement of one of the parts relative to the other, the slot being preferably of such a length as to afford a relative movement of about 70°.

The finger ring 9 may be of any diameter, according to the size of the finger of the user, and is preferably formed of material which is circular in cross section so as to present no sharp edges to become embedded in the flesh, the said ring broadening contiguous to the ears 8 to form a relatively wide bearing surface 12 against which the cushioned part of the finger at the juncture of the same with the palm, is designed to rest.

The section 3 is exteriorly threaded, as indicated at 13, at its other or forward end, and is formed in such end with a longitudinally disposed forwardly opening socket which is designed for the reception of the shank of a stylus 15 that may be of any

desired or approved construction or design, and is formed of any hard material or substance, as for instance, agate, said stylus being retained in position through the instrumentality of an interiorly threaded cap 16 which is slipped thereover and is engaged with the threads 13 of the section 3 as shown.

When it is desired to equip my improved holder with a pen or pencil or the like, the stylus 15 is removed, and a clip 17 substituted therefor which embodies two spring arms 17^a that are angularly disposed at one end and correspondingly bowed, as indicated at 18, so as to be adapted to substantially embrace and grip a pencil or the like at its forward end. The other ends of the spring arms 17^a are designed to be inserted into and seated in the socket 14, and a spacer 19 is interposed between such ends, and is preferably formed on opposite sides with outstanding studs or projections 20 that are designed to be received in recesses 21 in the arms, to hold the parts in matched position. In this case, the cap 16 is slipped over the last named ends of the spring arms before the latter are seated in the socket or the spacer is interposed therebetween, and said cap is subsequently screwed up upon the section 3 to retain the arms in position, the outer surfaces of said arms preferably diverging rearwardly, as shown, so as to cause the cap to draw the arms together as it is screwed into position, and thus cause the bowed portions 18 to effectually clamp the pencil or the like. In order to prevent the spring arms and the spacer from turning within the socket 14, the walls of the latter are preferably formed with one or more longitudinal slots 22 extending therethrough, and the spacer is provided with a corresponding number of lugs 23 which project outwardly through the respective slots and are held against the rear terminals of the same by means of the cap 16. Acting in conjunction with the clip 17 is a second spring clip 24 which substantially embraces the section 3 of the body portion and is detachably secured in position thereon by any suitable means, such as a set screw 25, the ends of said last named clip being designed to grip a pencil or the like and at a point in the rear of the bowed portions 18, and projecting outwardly from the body portion a sufficient distance to cause the pencil to clear the finger ring 9.

In the practical use of an instrument constructed in accordance with and embodying the improvements of my invention, a finger of the user is passed through the ring 9 so that the cushion of the finger at the juncture of the same with the palm rests upon the bearing surface 12 to exert the desired pressure upon the instrument, the fingers merely gripping the body portion to guide the same

across the paper, and the pivot joint between the finger ring and the body portion admitting of the latter assuming a proper and comfortable angle, in writing. When this device is employed by a telegraph operator, it will be seen that after he has transcribed his message with the same and it becomes necessary for him to use his telegraph instrument immediately, as to repeat the order, he merely has to give his hand a slight flip to cause the device to turn upon his finger and allow the body portion to rest upon the back of his hand and completely out of the way so as not to interfere with the operation of his telegraph instrument. When the writing device is again desired for use, it only becomes necessary to give the hand a flip in the reverse direction and bring the device again into position, or if found more convenient, the little finger may be employed to hold the body portion under the hand, and may be quickly withdrawn to permit the device to fall into position. It will be obvious that the parts of this improved holder are so arranged that the same is well balanced and feels comfortable in the hand, and that when placed upon a desk or the like there will be no liability of the device rolling out of the position in which it was placed.

From the foregoing description, in connection with the accompanying drawing, it will be apparent that I have provided an improved writing instrument by means of which pressure may be exerted upon the manuscript so as to obtain a clear copy, without the liability of the hand becoming cramped or the device slipping through the fingers; which is susceptible of carrying a stylus or pen or pencil, according as desired, and is so arranged that the change may be effected with facility, and which is reversible and is applicable to both right- and left-handed people as well as those suffering from operator's paralysis or writer's cramp, or having fingers missing. By means of the threaded coupling between the finger ring and the body portion, it will be manifest that the device may be extended or the finger ring entirely disengaged from the body portion and applied to another body portion of a different size or form.

This device is simple and durable in construction, and consists of comparatively few parts that may be readily separated so as to be placed upon the market at a price not too high to prevent the general adoption of the device.

Having thus described the invention, what I claim is:—

1. In a writing instrument, the combination of a holder, means carried by the holder for supporting a marking element in angular relation thereto, and a finger ring pivoted terminally to the holder to rotate in a

direction perpendicular to the plane substantially defined by the holder and the marking element.

2. A holder of the character described, comprising a body portion formed at one end with a slot, a finger ring pivotally connected to the body portion and provided with means cooperating with the slot to limit the play of the ring, and means disposed at the opposite end of the body portion for engaging a marking element.

3. A holder of the character described, comprising a body portion formed at one end with a head having a transverse slot, a finger ring formed with outstanding spaced ears arranged on opposite sides of the head and pivotally connected thereto, a stop extending transversely of the ears and working in the slot, and means disposed at the opposite end of the body portion for engaging a marking element.

4. In a writing instrument, the combination of a holder, a finger ring pivotally connected thereto, one of the parts being formed with a slot, and means carried by the other part and cooperating with the slot to afford the ring limited play relative to the holder.

5. A holder of the character described, comprising a body portion formed at one end with a socket, a clip embodying spring arms arranged at one end for engagement with a marking element, the other ends of the arms being seated in the socket, a spacer interposed between said last named ends of the arms engaging the body portion, and means for retaining the arms in position in the socket.

6. A holder of the character described, comprising a body portion exteriorly threaded at one end and formed at such end with a socket, a clip embodying spring arms arranged at one end for engagement with a marking element, the other ends of the clip being seated in the socket, and an interiorly threaded cap designed to be slipped over the arms and engaged with the threads of

the body portion to secure the former to the latter.

7. A holder of the character described, comprising a body portion and formed in one end of a socket and with a slot extending through the wall of said socket, a clip embodying spring arms arranged at one end for engagement with a marking element, the other ends of the arms being seated in the socket, a spacer interposed between said last named ends of the arms and formed with a lug projecting outwardly through the slot, and means for retaining the arms and the spacer in position in the socket.

8. A holder of the character described, comprising a body portion exteriorly threaded at one end and formed in such end with a socket and with a slot extending through the wall of said socket, a clip embodying spring arms arranged at one end for engagement with a marking element, the other ends of the arms being seated in the socket, a spacer interposed between the last named ends of the arms and formed with a lug projecting through the slot, and an interiorly threaded cap slipped over the arms and engaged with the body portion and abutting against the outstanding lug.

9. A holder of the character described, comprising a body portion exteriorly threaded at one end and formed at such end with a socket, a spring clip embodying separate arms arranged at one end for engagement with a marking element, the other ends of the arms being seated in the socket, and the outer faces of the arms being disposed in divergent relation, and a screw cap designed to be slipped over the arms and engaged with the body portion to secure the former to the latter and also draw the arms together.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN W. DYCHES. [L. s.]

Witnesses:

M. ANTHONY,
R. T. GAMMONS.