

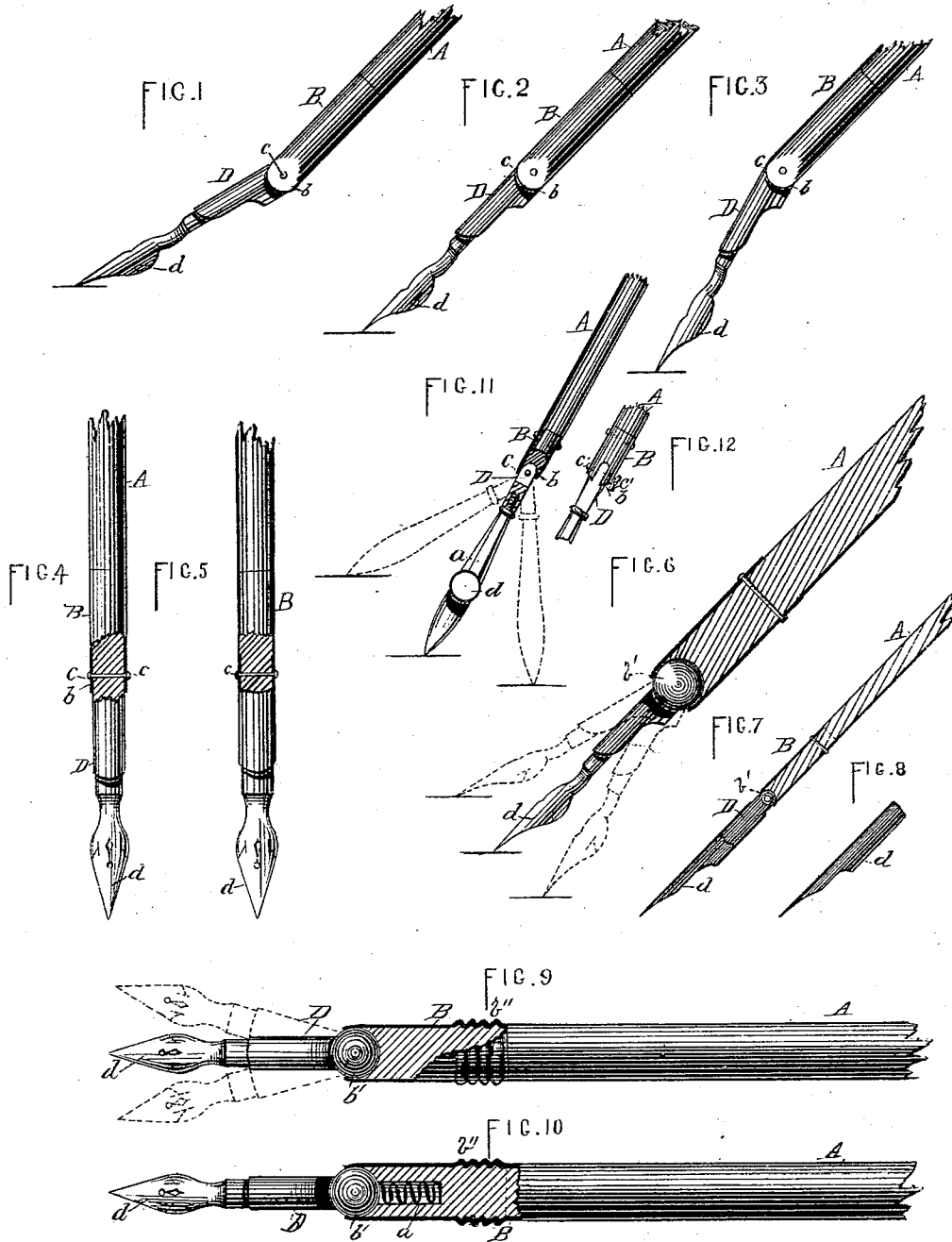
(No Model.)

E. FISCHER.

PEN HOLDER.

No. 278,697.

Patented June 5, 1883.



WITNESSES
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PEN-HOLDER.

SPECIFICATION forming part of Letters Patent No. 278,697, dated June 5, 1883.

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To all whom it may concern:

Be it known that I, ERNST FISCHER, of Halle-on-the-Saale, in the Kingdom of Prussia and German Empire, have invented a new and useful Improvement in Pen-Holders, of which the following is a specification.

The invention relates to a jointed holder in which the pen can be set at any desired angle to the holder. I provide the usual socket for the pen, and on it I place the attaching means, in the form of a flat surface, to lie between flat jaws or a ball which is encompassed by or partly encompassed by a ferrule of metal, which is secured upon the holder or handle. In both instances I employ both the metal socket and the metal ferrule and form the turning joint for the pen between them, and not between the socket and the handle proper. I also provide an adjusting means by which the joint may be made tighter or looser.

The accompanying drawings form a part of this specification and illustrate the invention as applied.

Figures 1, 2, and 3 are side elevations of a pen formed with flattened socket and jaws on the ferrule. Fig. 4 is a front view of the same, having a portion broken away to show the construction. Fig. 5 is a view similar to Fig. 4, in which the pen-socket covers the ferrule. Fig. 6 is a partial section and partial elevation, showing the ball-and-socket form. Fig. 7 shows a modified form, in which the pen-socket is placed in a circular-shanked pen. Fig. 8 is a view of this form of pen detached. Fig. 9 is a side elevation, partly in section, of the form having the adjustment between the ferrule and the holder. Fig. 10 is a view similar to Fig. 9, showing a self-tightening device for the joint. Fig. 11 is a modification of Fig. 1, showing the device adapted to hold a right-line pen. Fig. 12 is a view of the same form as Fig. 11, taken at right angles thereto.

Similar letters of reference indicate corresponding parts in all the figures.

A is the staff or handle; and B is the ferrule, to which is secured the pen-socket D in such a manner as to be adjustable or movable. In Figs. 1 to 5 and 11 and 12 the ferrule is formed at its end which is to have the pen-socket attached to it with jaws *b*, which em-

brace the said socket. In these figures the socket is flattened on either side at the point of attachment to the ferrule, as shown. The socket performs the usual function of holding the pen *d* in addition to being jointed to the ferrule B. This means of jointing, which is effected by uniting the flattened end of the socket and the jaws by means of a pin or rivet, *c*, allows a movement of the socket and its attached pen only in one line. A means for tightening the jaws *b*, where they possess sufficient elasticity, is shown in Fig. 12, where the rivet *c* is made screw-threaded and provided with the nut *c'*, which is screwed upon it to tighten the jaws on the socket.

In Figs. 6 to 10 a joint is shown which is capable of being turned in any desired direction, so as to set the socket, with its pen, at any angle or direction. A ball, *b'*, forms the end of the socket instead of its being flattened to be embraced by a pair of jaws. The ferrule B encompasses the ball *b'* to an extent to hold it in place under all circumstances, but with liberty for it to be turned in any direction. The socket D and ferrule B perform the same relative functions in this case that they did in the Figs. 1 to 5 and 11 and 12.

In Fig. 9 a means for tightening the ferrule upon the ball is shown, consisting of a screw-thread formed in the ferrule, into which the handle A is screwed, so as to be forced down and held firmly upon the ball *b'*. The screw-threads are shown at *b''*. In this way the socket, with its pen, can be set at the desired angle, and the handle screwed into the ferrule until the ball is made tight and the pen set rigidly at that angle. The same device is shown in Fig. 10, and, in addition, a spring, *a*, set in a recess in the handle A just back of the ball *b'*, which forces the ball tight against the encompassing portion of the ferrule B, and thus serves to automatically hold the socket and pen in any fixed position.

It will be observed that in every instance the joint upon which the socket is made to turn is formed between the metallic ferrule B, placed upon the handle A, and the socket D, which in each instance is formed separately from the ferrule.

Having thus described my invention, what

I desire to claim and secure by Letters Patent is—

1. In combination with the pen-socket provided with a ball, the encompassing ferrule, 5 provided with a screw-thread, and the handle A, having hollow end and screwed into said ferrule to secure the connection, substantially as set forth.

2. The combination, with the pen-socket, 10 provided with a ball, of the ferrule and han-

dle, the latter being bored out back of the ball, and with a spring, *a*, lying in the bored shaft or handle and exerting an outward pressure on the ball, substantially as set forth.

This specification signed by me this 30th day 15 of December, 1880.

ERNST FISCHER.

Witnesses :

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