

(No Model.)

W. R. SPENCER.
SHADING PEN.

No. 586,979.

Patented July 27, 1897.

FIG. 1.

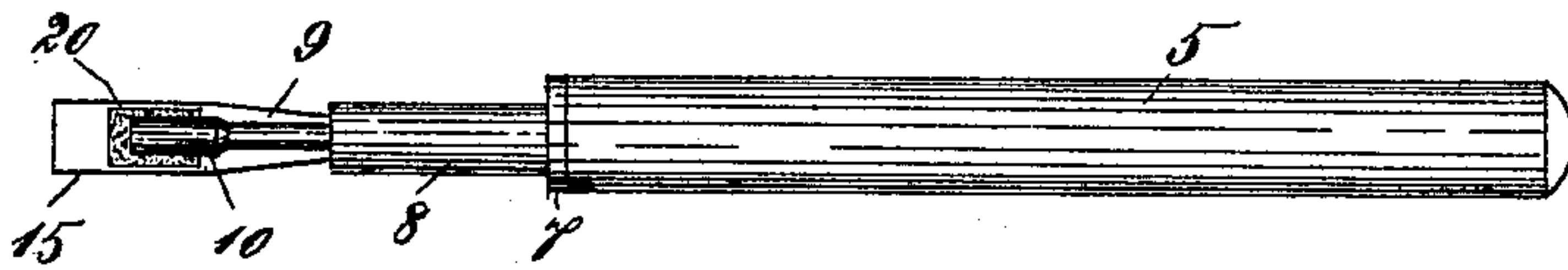


FIG. 2.

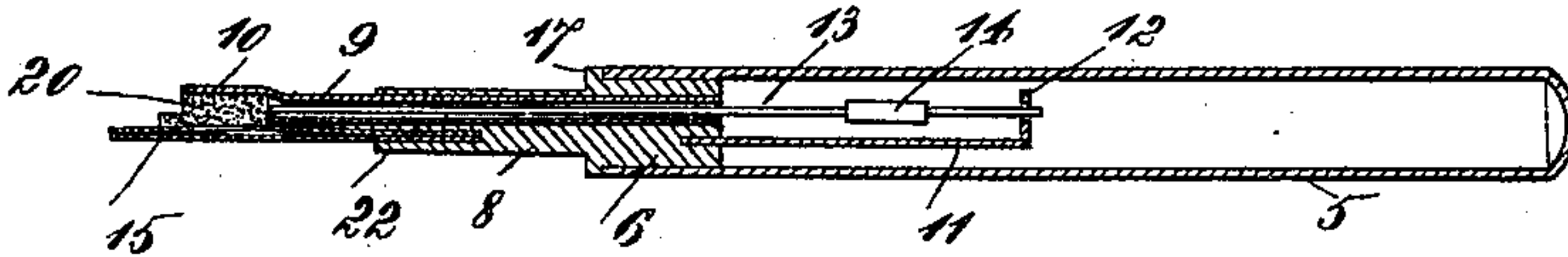
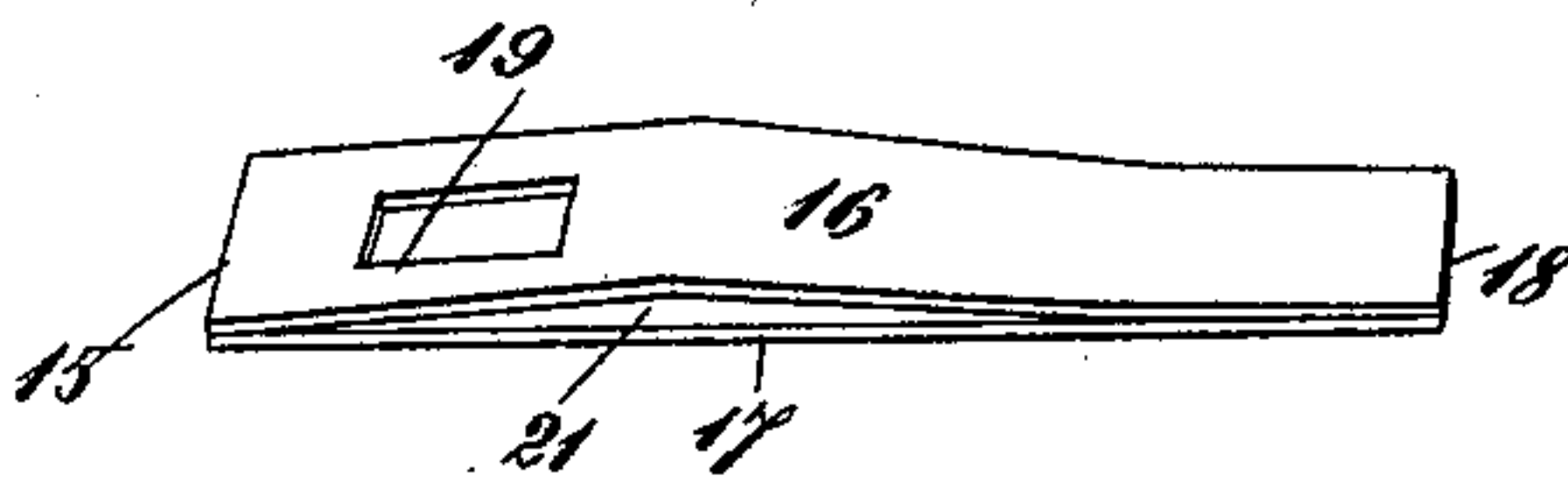


FIG. 3.



WITNESSES

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[Signature]

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BY

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ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIE ROY SPENCER, OF VANCOUVER, CANADA.

SHADING-PEN.

SPECIFICATION forming part of Letters Patent No. 586,979, dated July 27, 1897.

Application filed October 17, 1896. Serial No. 609,233. (No model.)

To all whom it may concern:

Be it known that I, WILLIE ROY SPENCER, a citizen of the United States of America, residing at Vancouver, in the county of Vancouver and Province of British Columbia, Canada, have invented certain new and useful Improvements in Shading-Pens, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to shading-pens; and the object thereof is to provide an improved device of this class which is simple in construction and operation and which is provided with improved means for feeding the ink to the pen.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a plan view of my improved shading-pen; Fig. 2, a central longitudinal section thereof, and Fig. 3 a perspective view of the pen proper detached from the holder.

In the practice of my invention I provide a shading-pen which comprises a tubular reservoir 5, which is closed at one end and open at the other, and in the open end of which is inserted a plug 6, which is provided with an annular rim or shoulder 7 and with a reduced extension 8 and through which passes, near one side thereof, a tube 9, the outer end of which is provided with an enlarged head 10, which is open on its under side.

Secured in the inner end of the plug 6 is a rod or plate 11, which is provided at its inner end with an angular arm or projection 12, through which passes a movable rod 13, which extends through the tube 9 and on which is placed a weight 14. I also provide an improved pen 15, which is shown in perspective in Fig. 3 and which consists of two similar spring-plates 16 and 17, which are secured together at their inner ends, as shown at 18, in any desired manner, or the pen may be formed integrally of a single piece of metal so bent back upon itself as to form upper and lower strips, and the upper strip or plate 16 is bent upwardly near the middle thereof, and formed therein between the central upwardly-bent portion and the end is a slot or opening

19, and mounted in the head 10 of the tube 9, which is open at its inner side, as hereinbefore described, is a sponge or similar device 20, which rests upon the upper plate 16 of the pen and over the opening or slot 19, as clearly shown in Figs. 1 and 2.

The bending of the upper plate 16 of the pen forms a space 21 between the separate plates 16 and 17 thereof, and the pen is connected with the extension 8 of the plug 6 by being inserted into the slot formed therein, as shown at 22.

The operation will be readily understood from the foregoing description when taken in connection with the accompanying drawings and the following statement thereof. The tubular reservoir 5 is filled with ink in the usual manner and the plug 6 is then inserted and the pen is ready for use. The ink flows through the tube 9 into the sponge 20 and passes through said sponge onto the inner side of the lower plate 17 of the pen and out between the ends of said plates in the usual manner.

By shaking the pen the rod 13 may be caused to slide back and forth in the tube 9 and thus keep said tube clean or free from obstruction, and this movement also serves to facilitate the flow of ink through said tube, and in practice said tube is made of such size that the rod 13 is free to move therein, while leaving but slight space, the object being to provide only sufficient space to admit of the gradual flow of the ink in quantities sufficient to supply the pen.

The form of the pen also assists in feeding the ink to the point thereof, as the pressure on the bottom plate 17 at the end thereof tends to bring said plates 16 and 17 together and also to press the same upon the sponge or other absorbing device 20 as it forces the ink therefrom onto the lower plate 17, from which it passes to the end or point of the pen.

This device is simple in construction and operation and perfectly adapted to accomplish the result for which it is intended, and it is evident that changes in and modifications of the construction herein described may be made without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

5 1. A shading-pen comprising a tubular reservoir which is closed at one end and open at the other, a plug which is adapted to be inserted into the open end thereof, said plug being provided with an extension, a pen which is mounted in said extension, and which consists of two plates, one of which is provided with an opening or slot, and a tube which extends through said plug and through the extension thereof, and which is adapted to hold a sponge or other absorbing device over said opening, and a longitudinally-movable rod mounted in said tube, substantially as shown and described.

20 2. A shading-pen comprising a tubular reservoir, which is closed at one end and open at the other, a plug which is inserted into the open end and provided with an extension, a

pen mounted in the end of said extension and consisting of two spring-plates, which are connected at their inner ends, and one of said plates being provided with a slot or opening therein, and a tube which passes through said plug, and the extension thereof, and which is provided at its outer end with a head which is open on its under side, and in which is placed a sponge or other absorbing device which is held by said head over the opening formed in one side of the pen, and a longitudinally-movable rod which is mounted in said tube, substantially as shown and described.

35 In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 8th day of October, 1896.

WILLIE ROY SPENCER.

Witnesses:

H. J. RICKARD,
L. G. FAULKNER.