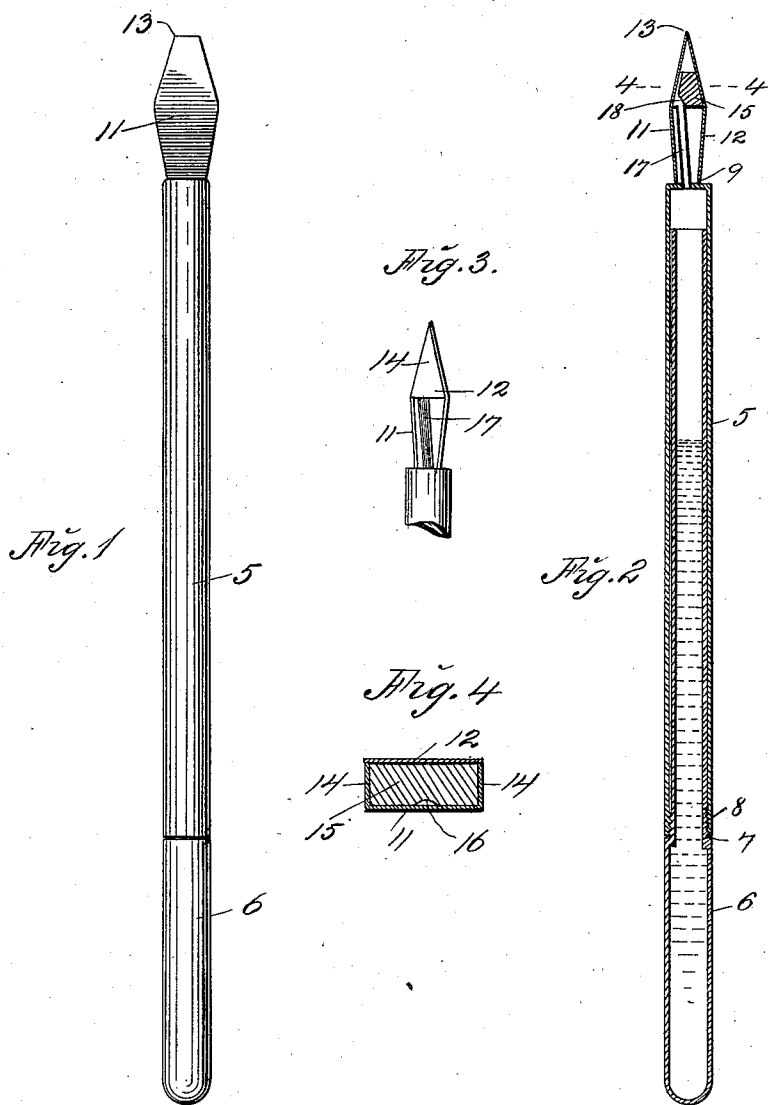


(No Model.)

M. HEITMANN.
FOUNTAIN SHADING PEN.

No. 565,982.

Patented Aug. 18, 1896.



WITNESSES

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FOUNTAIN SHADING-PEN.

SPECIFICATION forming part of Letters Patent No. 565,982, dated August 18, 1896.

Application filed June 11, 1896. Serial No. 595,154. (No model.)

To all whom it may concern:

Be it known that I, MAX HEITMANN, a subject of the Emperor of Germany, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Fountain Shading-Pens, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar numerals of reference indicate corresponding parts wherever found throughout the several views.

This invention relates to fountain shading-pens, and the object thereof is to provide an improved device of this class which is simple in construction and operation, and also comparatively inexpensive; and with this and other objects in view the invention consists in the construction, combination, and arrangement of parts hereinafter described and claimed.

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

Figure 1 is a side view of my improved fountain shading-pen; Fig. 2, a central longitudinal section thereof; Fig. 3, a side view of the pen and a portion of the end of the reservoir or holder, and Fig. 4 a section on the line 4 4 of Fig. 2.

In the practice of my invention I provide a shading-pen which comprises a telescopic holder or reservoir, which consists of two tubes 5 and 6, the latter of which is reduced in size for the greater portion of its length and provided with an annular shoulder or projection 7, adjacent to which it is screw-threaded, and the tube 5 is also provided with a screw-thread at its corresponding end, as shown at 8, and these tubes are adapted to be inserted one within the other, as shown in Fig. 2, and to be connected by the screw-threads formed thereon, and in this position of said tubes the reduced portion of the tube 6 projects almost to the closed end of the tube 5, as shown at 9.

The outer end of the tube 6 is closed, as is also the opposite end of the tube 5, said tube 5 being provided with a cross head or plate 9, and connected therewith is my improved pen, which consists of two plates 11 and 12,

which are wider at the middle than at the ends thereof, and which diverge from the end of the tube 5 to about the middle thereof, beyond which they are gradually inclined toward each other and brought together to form a point at 13.

The outer end of the side 11 is provided with triangular side pieces 14, and the side plate 12 of the pen rests thereon, and between said side pieces is a block 15, which is secured to or formed on the side 11 between the side plates 14, and which is triangular in form in longitudinal section and rectangular in form in cross-section, and formed in the under side thereof is a slot or groove 16, and connected centrally with the head 9 of the tube 5 is a small rubber tube 17, which communicates with the slot or groove 16 at 18, and the operation will be readily understood from the foregoing description when taken in connection with the accompanying drawings and the following statement thereof.

The ink is placed in the tube 6, and said tube is substantially filled therewith, after which the tube 5 is connected with said tube 6, as shown in Fig. 2, and the pen is then ready for use. It will be understood that the ink flows through the tube 17 into the groove or slot 16, onto the plate 11, and down over said plate to the point 13, and in the operation of the pen it is preferably held with the side 12 thereof upward, and by reason of the fact that the side 12 is not connected with the side 11 or with the block 14 the ends or points of the sides are free to move one upon the other, and any desired amount of pressure may be applied thereto, and this operation also serves to keep the point clean and allow the ink to pass freely between the ends of the separate side plates 11 and 12.

It will be understood that the point of the pen may be made as wide as desired, and the tube 17 is of just such size as to permit the required amount of ink to flow therethrough, and the operation thereof or the flow of the ink will be automatic, as will be readily understood.

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 modifica-

tions 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—

1. A shading-pen consisting of a reservoir or holder, composed of two telescopic tubes, said tubes being closed at their outer ends and open at their inner ends, and one of said tubes being provided with a pen, comprising two side plates which are secured thereto, and brought to a point at their outer ends, one of said side plates being provided with triangular sides, and with a block which is secured thereto, between said sides, said block being provided with a slot or groove on the side adjacent to the plate to which it is secured, and a small tube which communicates with the end of the tube to which the pen is attached, and with said slot or groove, substantially as shown and described.

2. A shading-pen comprising a holder, composed of two tubes which are adapted to be connected by screw-threads, said tubes being

closed at their outer and open at their inner ends, and the outer tube being provided at its closed end with a pen consisting of two side plates, which diverge to about the middle thereof, and which converge from the middle, and come together to form a point, one of said plates being provided with side plates which are triangular in form, and which extend from about the middle to the point of the pen, and with a block which is secured thereto, between said side plates, said block being also provided with a slot or groove in one side adjacent to one of said side plates, and a small rubber tube which forms a communication between the reservoir or holder, and said slot or groove, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 9th day of June, 1896.

MAX HEITMANN.

Witnesses:

W. W. HILL,
CHARLES S. ROGERS.