

(No Model.)

O. WINKLER.
FOUNTAIN PEN.

No. 605,804.

Patented June 14, 1898.

Fig. 1.

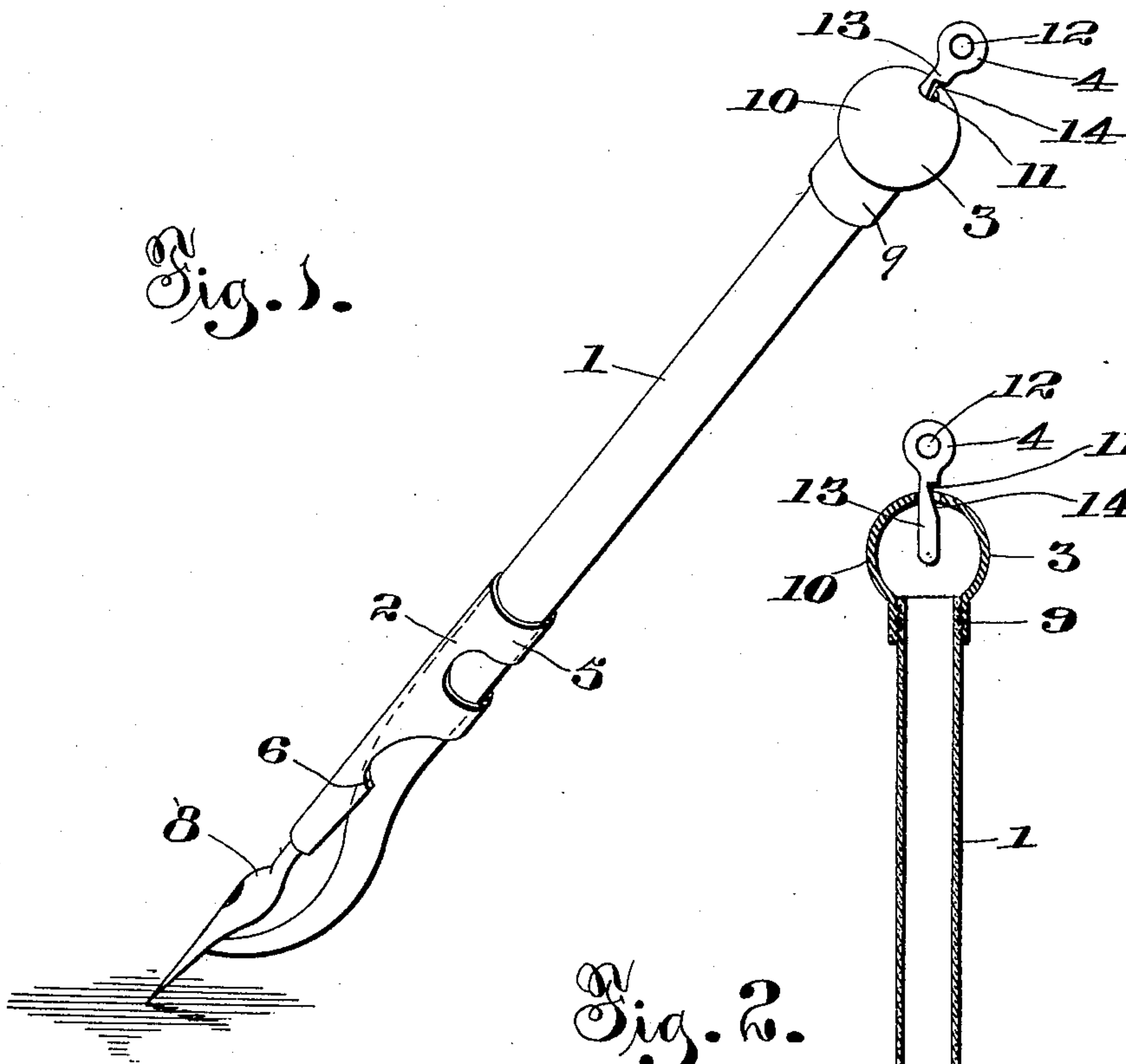


Fig. 2.

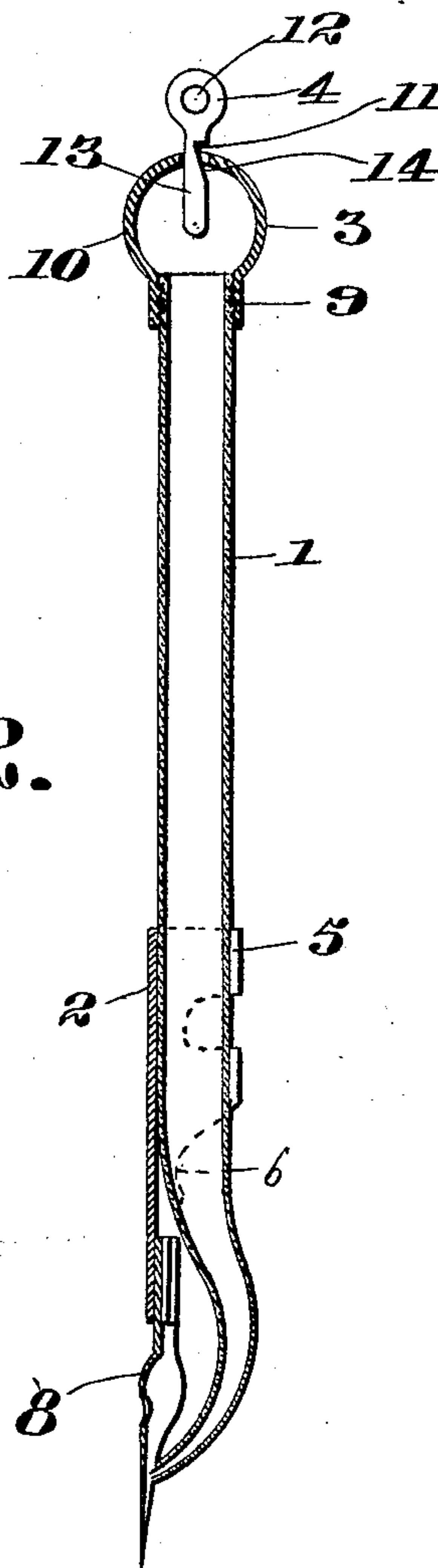
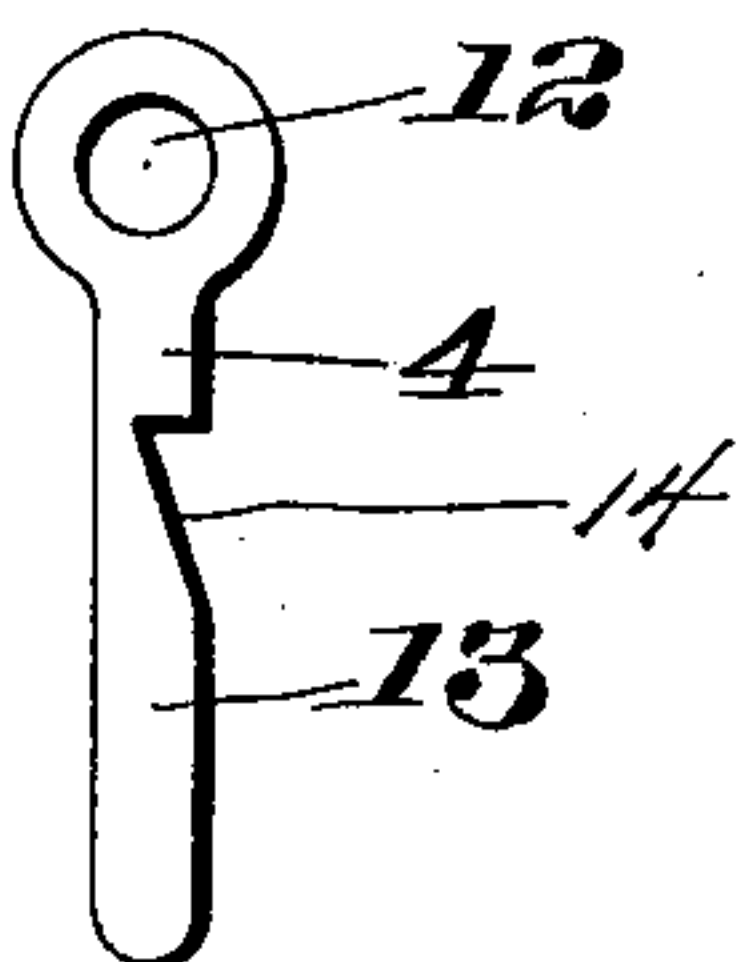


Fig. 3.



Witnesses
Marcus L. Byng
Victor J. Evans

Inventor
Olof Winkler
By John Wedderburn
Attorney

UNITED STATES PATENT OFFICE.

OLOF WINKLER, OF HELSINGBORG, SWEDEN.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 605,804, dated June 14, 1898.

Application filed August 25, 1897. Serial No. 649,520. (No model.)

To all whom it may concern:

Be it known that I, OLOF WINKLER, of Helsingborg, Sweden, have invented certain new and useful Improvements in Pens; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in pens, and has more particular relation to reservoir-pens.

The invention consists of a reservoir-pen comprising a hollow body portion, a flexible cap or bulb upon one end of said body portion, and an adjustable air-inlet valve projecting through an opening in said cap and provided with an inclined recess.

The invention also consists of certain other novel constructions, combinations, and arrangements of parts, all of which will be hereinafter more particularly set forth and claimed.

In the accompanying drawings, forming part of this specification, Figure 1 represents a perspective view of the pen embodying my invention. Fig. 2 represents a central vertical longitudinal section through the same. Fig. 3 represents an enlarged detail perspective view of the plug or valve.

1 in the drawings represents the body portion; 2, the pen-clamp; 3, the bulb-cap, and 4 the regulating plug or valve. Said body portion 1 is preferably constructed of glass and is cylindrical in form, as shown in the drawings. The lower end of said body portion is reduced and curved, as illustrated, so as to bring its discharge end in alinement with the exterior of said cylindrical portion. The clamp 2 is preferably constructed of metal and is adapted to be adjustably secured to the cylindrical portion 1 by spring clamping-arms 5, which closely hug said cylindrical portion. The downwardly-extending portion 6 of said clamp is formed with inwardly-turned flanges, between which the pen 8 is slipped. It will be observed from the foregoing description that the lower curved end of the body portion 1 will discharge laterally against the interior of the pen 8. The cap 3 for closing the upper end of the cylindrical body portion is preferably constructed of rubber and comprises an attaching-sleeve 9 and a

rubber filling-bulb 10, the latter being provided in its upper portion with a plug-aperture 11, adapted to receive the regulating-plug 4. This latter comprises an eye 12 and a shank 13, the latter formed with an inclined recess 14.

It will be observed from the foregoing description that when the shank portion is partly withdrawn from the bulb 10 the supply of air to the interior of the body 1 will be cut off. When it is desired to cause the ink to flow from the lower end of the body portion onto the pen, the plug 4 is accordingly pushed forward, so as to cause the recess 14 to come into alinement with the opening 11, which will admit air to the bulb 10. By the peculiar inclined formation of said recess 14 the air-inlet port may be increased or decreased in size by simply pulling the plug 4 out or pushing the same in. When it is desired to fill the body portion 1 with ink, the bulb 10 is first compressed with the fingers, the lower end of the body portion being inserted into an ink-bottle or other receptacle. Upon releasing said bulb 10 the same will expand, the valve being closed, and the ink will be drawn up into the body portion.

It will be observed from the foregoing description that the clamp 2 may be readily slipped along upon the body portion 1, so as not to discharge the ink upon the upper portion of the pen 8. The flow from the lower discharge end of said body portion may also be regulated at will.

This pen is very simple and cheap in construction and at the same time secures the best possible results, as the flow of ink is entirely under control at all times or may be shut off altogether by forcing the shank portion of the plug within the bulb.

By the peculiar construction of the body portion the ink does not contact with any portion of the metal holder 2, and the latter is therefore prevented from becoming corroded or discolored.

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

1. In a reservoir-pen, the combination with a hollow body portion, of a flexible cap or bulb upon one end of said body portion, and an adjustable air-inlet valve projecting

through an opening in said cap, the said valve provided with an inclined recess, substantially as and for the purpose set forth.

2. In a reservoir-pen, the combination with
5 a hollow body portion, of a flexible closing-cap upon the upper end of said body portion provided with an opening, and a plug-valve adapted to fit within said opening provided with an inclined recess in one of its sides,
10 whereby by a change of position of said plug-

valve in said cap said opening may be completely closed or the size thereof regulated, as and for the purpose set forth.

In testimony whereof I have signed this specification in the presence of two subscrib- 15
ing witnesses.

OLOF WINKLER.

Witnesses:

J. G. JÖNSTON,
AXEL B. TRAPP.