

No. 894,519.

PATENTED JULY 28, 1908.

H. G. MILLS.
FOUNTAIN PEN.
APPLICATION FILED JAN. 31, 1908.

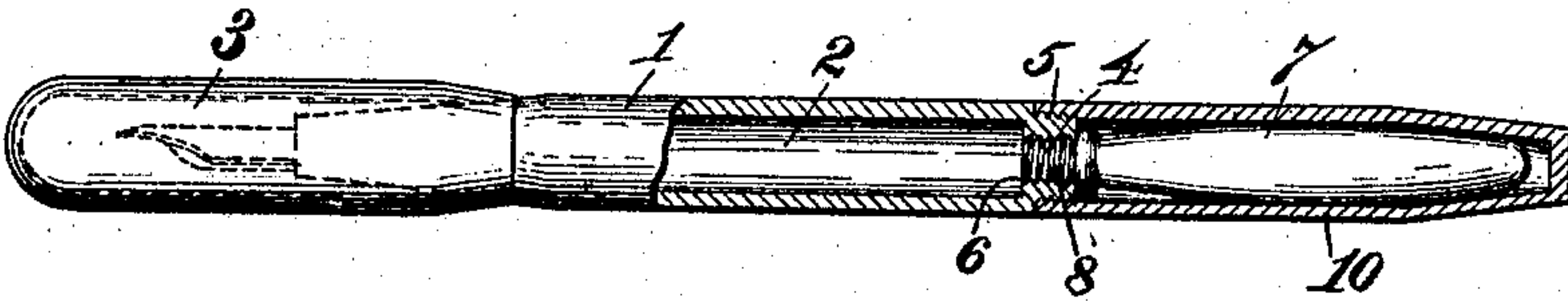


Fig. 1.

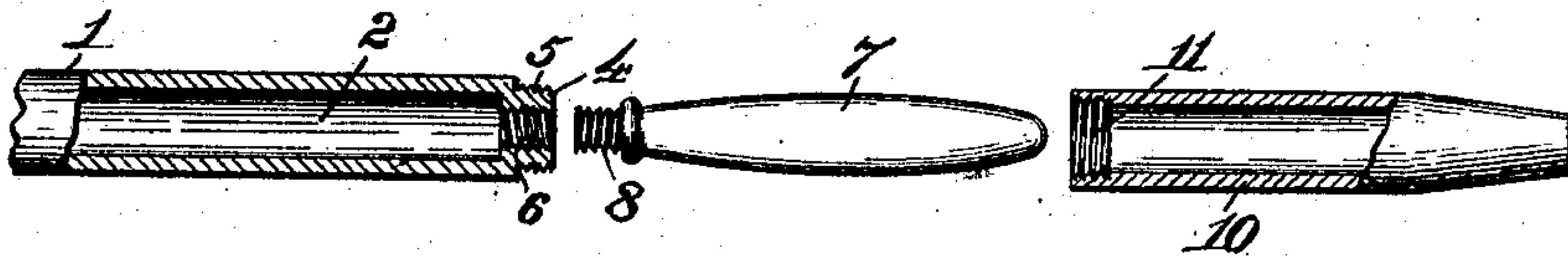


Fig. 2.

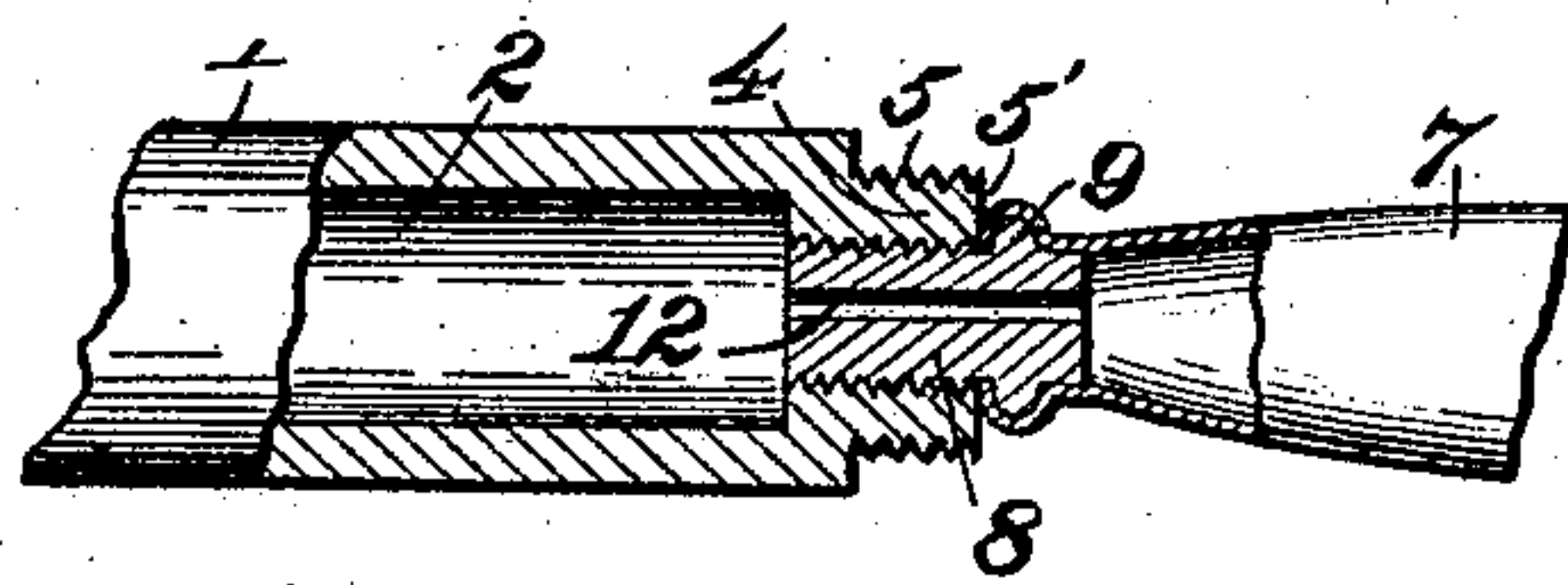


Fig. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

HENRY G. MILLS, OF MILWAUKEE, WISCONSIN.

FOUNTAIN-PEN.

No. 894,519.

Specification of Letters Patent.

Patented July 28, 1908.

Application filed January 31, 1908. Serial No. 413,548.

To all whom it may concern:

Be it known that I, HENRY G. MILLS, a citizen of the United States, residing at Milwaukee, county of Milwaukee, and State of Wisconsin, have invented certain new and useful Improvements in Fountain-Pens, of which the following is a specification.

My invention relates to fountain pens and the object of my invention is to provide a self filling fountain pen of improved construction.

A further object of my invention is to provide a self filling fountain pen which may be readily and easily operated, of low cost to manufacture and one which shall present a neat appearance.

Other objects will appear hereinafter.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification and in which,

Figure 1 is a view of the pen partially in longitudinal section, Fig. 2 is a detail view illustrating the several parts separated, and Fig. 3 is a detail sectional view.

Referring to the drawings, 1 indicates the barrel of the pen forming the reservoir, 2 and 3 the cap for covering the pen. The upper end of the barrel is provided with a nipple, 4 formed integrally therewith and of reduced diameter. The nipple, 4 is both externally and internally threaded as at 5 and 6 for purposes hereinafter described.

7 indicates a compressible and expansible bulb, by means of which the reservoir, 2 is filled. The bulb 7 is of substantially the same diameter as the nipple, 5 or slightly smaller and is made quite long to give it sufficient capacity.

8 indicates a plug preferably of hard rubber by means of which the bulb, 7 is secured to the reservoir. The plug, 8 is threaded and is adapted to engage the threads, 6 of the nipple, 4.

9 indicates an annular rib or flange formed upon the plug, 8 and having a double function, namely, to provide means for more securely attaching the bulb to the plug and for clamping its edges against the end 5' of the nipple to form an air tight joint between the bulb and the reservoir. It is obvious that

although the bulb forms a permanent part of the pen it may be readily replaced when hardened or worn from use.

10 indicates a shield of sufficient size to receive the bulb, 7 when in expanded condition and having its end internally threaded as at 11 to engage with the threads, 5 on the nipple.

When the device is assembled it presents a neat appearance not unlike that of an ordinary fountain pen. To fill the pen, the shield, 10 is removed by unscrewing it, after which the pen is inserted in the ink and the bulb, 7 compressed and then released. As the bulb expands it draws the ink into the reservoir, 2 after which the shield 10 is replaced. To prevent the ink from entering the bulb when in upright position, when in the pocket, the bore, 12 of the plug, 8 is made quite small. The edge of the rubber bulb being clamped between the rib, 9 and the nipple prevents the ink seeping out at the joint and soiling the clothes, the edge of the bulb forming a gasket.

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

1. In a fountain pen the barrel provided at its upper end with a nipple of reduced diameter and internally and externally threaded, in combination with a plug threaded into said nipple and having a bulb secured thereto and a shield for said bulb threaded on said nipple as and for the purpose specified.

2. In a fountain pen, the barrel having a nipple of reduced diameter formed upon its upper end, said nipple being internally and externally threaded, a plug threaded into said nipple, a bulb on said plug said plug being provided with a flange for clamping the edge of the bulb between the same and said nipple and a shield threaded upon said nipple, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY G. MILLS.

Witnesses:

FRANCES E. SHEEHY,
HELEN F. LILLES.