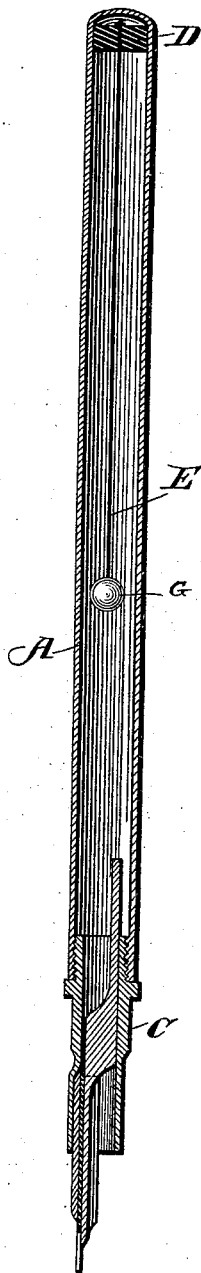


(No Model.)

F. C. BROWN.
FOUNTAIN PEN.

No. 490,862.

Patented Jan. 31, 1893.



Witnesses:
H. G. Dieterich
M. J. L. Higgins

Inventor:
Francis C. Brown,
By Henry Orth *Atty.*

UNITED STATES PATENT OFFICE.

FRANCIS C. BROWN, OF NEW YORK, N. Y.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 490,862, dated January 31, 1893.

Application filed March 18, 1892. Serial No. 425,451. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS CASHEL BROWN, a citizen of the United States, residing at New York, in the county and State of New York, have invented certain new and useful Improvements in Fountain-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, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in fountain pens and is designed to prevent the ink from running out of the pen in drops when the reservoir is nearly empty or when the pen is suddenly inverted into writing position.

My invention consists in mounting loosely in the barrel or tube a ball or weight with means by which the ball or weight is arrested at a point above the discharge outlet, whereby the ball or weight acts as a resistance to the increased volume of air as the ink is withdrawn, and is adapted to rest freely in the closed end of the barrel when not in use, all as hereinafter explained.

In the accompanying drawing the figure represents a longitudinal section of a fountain pen showing one manner of mounting or suspending the ball or drop weight.

The barrel, A, and other parts of the pen are constructed in the usual manner where the air is supplied from the tip. The tip is screwed into the barrel as shown.

D, represents a disk of rubber, cork, or other non-corrodible material adapted to closely fit the barrel, and has connected centrally thereof a flexible cord or chain, E, of a length corresponding to a little more than half the length of the barrel, more or less, to the end of which cord or chain is connected a ball or weight G

of non-corrodible material, the flexibility of the cord or chain permitting the free movement of the ball or weight in the barrel within certain limits; this ball or weight is of less diameter than the bore of the barrel to permit the ink to flow freely around it when the barrel is full in a manner that will be readily understood.

By constructing the pen as above described a resistance or support is formed to the increased pressure of air behind the column of ink as the ink is gradually withdrawn or used, and as a consequence the ink is prevented from being forced out in drops, and by such construction the ink is also prevented from being forced out when the pen is suddenly inverted, and especially so when there is little ink in the pen.

By suspending the ball or, weight by the cord or chain as above described, it will be seen that the weight is caused to move or vibrate with each movement of the hand in writing, and as a consequence causes a more even and uniform distribution of the ink, all of which will be readily apparent and appreciated.

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

In a fountain pen, a barrel or tube, a ball or weight loosely contained therein, and a device by which the movement of the ball or weight is arrested at a point above the discharge outlet, substantially as described, whereby the ball or weight acts as a resistance to the increased volume of air as the ink is withdrawn, and is adapted to rest freely in the closed end of the barrel when not in use, as set forth.

FRANCIS C. BROWN.

Witnesses:

CAMILLE QUESNEL,
WILLIAM H. FAULDER.