

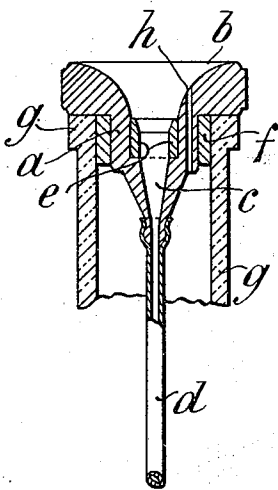
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G. SWEETSER

STOPPER FOR INKBOTTLES

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INVENTOR:

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UNITED STATES PATENT OFFICE.

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STOPPER FOR INKBOTTLES.

Application filed November 24, 1924, Serial No. 751,876, and in Great Britain March 13, 1924.

The object of this invention is to provide means whereby self-filling fountain pens may be filled from an ink bottle without soiling the pen and whereby the whole of the ink may be drawn from the bottle.

According to this invention a stopper for an ink bottle has a stem extending into the bottle, a passage extending through the stem and through the stopper and a seating in the passage adapted to make an airtight joint with a fountain pen. The stopper may have a flanged head and the seating may consist of an elastic washer located at the upper part of the passage. The stem may terminate in a flexible tube which extends to the bottom of the bottle.

The accompanying drawing shows a stopper made in accordance with this invention fitting into the mouth of the ink bottle.

a is a stopper having a flanged head *b* and a stem *c* which extends into the bottle. The lower portion of the stem *c* consists of an India rubber tube *d*. In the passage extending through the head *b* and stem *c* is an elastic washer *e* which acts as a seating forming an airtight joint with a fountain pen. On the outer periphery of the stopper *a* is a cork ring *f* whereby an airtight joint is made between the stopper *a* and the neck *g* of the bottle. In the stopper *a* is a small hole *h* to equalize the pressure of air in the ink bottle.

In operation the fountain pen is pressed point downwards into the stopper *a* forming an airtight joint with the elastic washer *e*.

The self-filling mechanism of the pen is then worked in the usual manner causing the ink to flow through the tube *d* and the stem *c* of the stopper *a* into the reservoir of the pen in which a vacuum has been formed.

What I claim is:—

1. A stopper for an ink bottle having a flanged head and a stem extending into the bottle, a passage extending through the stem and head, an elastic washer in the passage near the upper part of the stem and forming a seating adapted to make an air-tight joint with a fountain pen, and an air passage in the head above the upper end of said elastic washer where it is not closed by the fountain pen but may be closed by a cork which closes the main passage.

2. A stopper for an ink bottle having a flanged head and a stem extending into the bottle, a passage extending through the stem and head, a washer between the upper end of the bottle and the stopper, an elastic washer in the passage near the upper part of the stem and forming a seating adapted to make an air-tight joint with a fountain pen, and an air passage through the stopper opening into said main passage in the head above the upper end of said elastic washer where it is not closed by the fountain pen but may be closed by a cork which closes the main passage.

In testimony that I claim the foregoing as my invention I have signed my name this 16th day of September, 1924.

GEORGE SWEETSER.