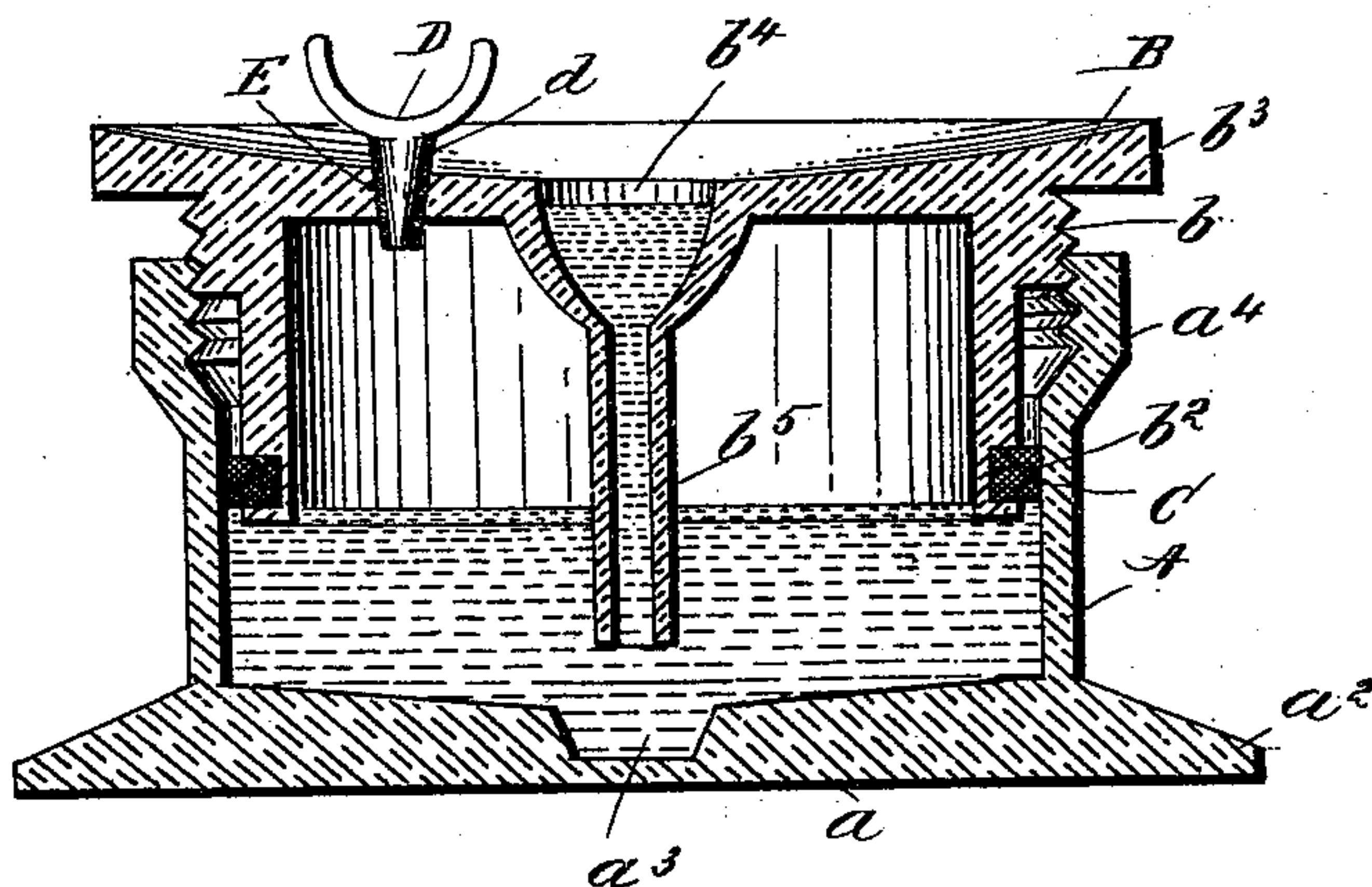


(No Model.)

R. BELL & L. HALL.
AUTOMATIC RESERVOIR OR FOUNTAIN INKSTAND.

No. 586,958.

Patented July 27, 1897.



WITNESSES

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ROBERT BELL AND LOUISA HALL, OF SOUTH SHIELDS, ENGLAND.

AUTOMATIC RESERVOIR OR FOUNTAIN INKSTAND.

SPECIFICATION forming part of Letters Patent No. 586,958, dated July 27, 1897.

Application filed November 7, 1896. Serial No. 611,358. (No model.)

To all whom it may concern:

Be it known that we, ROBERT BELL and LOUISA HALL, subjects of the Queen of England, and residents of 2 Whitburn Terrace, South Shields, in the county of Durham, England, have invented certain new and useful Improvements in Automatic Reservoir or Fountain Inkstands, of which the following is a specification, reference being had to the accompanying drawing, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to automatic reservoir or fountain inkstands; and the object thereof is to provide an improved device of this class which is simple in construction and operation and which comprises a cylindrical body portion having a screw-threaded circular cap which is provided with a central depending tube, at the upper end of which is formed an enlarged cavity or chamber into which a pen may be inserted, the construction and arrangement being such that the position of the cap or cover may be adjusted so as to raise or lower the ink within the said cavity or recess; 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 drawing forms a part, said drawing being a central vertical section of our improved inkstand.

In the drawing forming part of this specification the separate parts of our invention are designated by letters of reference, and in the practice thereof we provide an inkstand comprising a body portion A, which is cylindrical in form and which may be composed of glass, earthenware, or other preferred material and which constitutes the reservoir or ink-holder proper.

The bottom a of the body portion A is preferably quite thick, and the perimeter thereof is preferably extended, as shown at a^2 , so as to provide a safe and firm base, and formed centrally in the bottom of the body portion is a cavity or recess a^3 , the bottom being sloped toward this cavity.

The upper part of the body portion A is enlarged, so as to form an annular rim a^4 , the

inner walls of which are screw-threaded, and we also provide a cap or cover B, which is provided with a depending annular body portion b , the upper walls of which are screw-threaded, so as to engage with the screw-thread in the annular rim a^4 , and formed in the lower part of the depending annular body portion b of the cap B is an annular groove b^2 , in which is placed a ring C, of packing material, which is adapted to closely fit and to form a tight joint between the lower portion of the annular depending body portion of the cap B and the inner walls of the body portion A of the inkstand.

The cap or cover B is also provided with an annular flange or rim b^3 , which is adapted to rest upon the annular rim a^4 when the cap or cover is in its lowest position, and said cap or cover is preferably concave on its upper surface, and formed in the center thereof is a cavity or chamber b^4 , the lower end of which is open and communicates with a tube b^5 , the lower end of which projects downwardly to near the bottom of the inkstand and opens immediately over the cavity or recess a^3 .

The operation will be readily understood from the foregoing description when taken in connection with the accompanying drawing.

To fill the inkstand, the top portion B is unscrewed completely from the reservoir A and turned upside down. It is then filled two-thirds full of ink, and while in this position the reservoir A is screwed on well down and the inkstand turned right side up. It is then ready for use. It will be apparent that a slight turn of the cap will cause the ink to rise in the tube b^5 and the cavity or chamber b^4 , and it will further be observed that after use the ink can be entirely drawn into the reservoir again by simply turning back the cap.

It will be observed that no air can enter the inkstand, and the only portion of the ink exposed to the air is that within the cavity or chamber b^4 or the tube b^5 , and it will further be apparent that the position of the cap or cover may be adjusted whenever desired and said cap or cover raised or depressed by simply turning the same, and in this operation the packing-ring C forms a secure connection between the said cap or cover B and

the body portion A of the inkstand or reservoir, and it will also be apparent that by reason of this construction the ink may be held in the cavity or chamber b^1 at any desired height.

We have also shown at D a plug provided with a rubber or other suitable casing or covering d^2 , and which is designed to close a vent-opening E in the cap or cover B, and if desired the inkstand may be filled by removing the plug D and pouring the ink through the tube b^5 , and by means of this construction much more ink may be placed in the inkstand than if the plug D and the opening E are not employed, and the operation after the inkstand has been filled will be substantially the same as hereinbefore described. It will be understood, however, that the opening E and the plug D are not absolutely essential and may or may not be employed, and it will also be apparent that other changes in and modifications of the construction herein described may be made without departing from the spirit of our invention or sacrificing its advantages.

Having fully described our invention, we claim as new and desire to secure by Letters Patent—

1. An automatic fountain-inkstand comprising a cylindrical body portion provided with a central cavity or recess, the upper part of said body portion being enlarged to form an annular rim which is interiorly screw-threaded, a cap or cover having a depending annular body portion provided with exterior screw-threads to afford engagement for the parts, the lower part of the depending portion of the cap having formed therein an annular

groove, said cap being concave on its upper surface and having formed in the center thereof a cavity or chamber, the lower end of which is open and communicates with a depending tubular extension and a band of resilient material adapted to be secured in said annular groove to render the device air and water tight, substantially as described.

2. An automatic fountain-inkstand comprising a cylindrical body portion provided with a central cavity or recess, the upper part of said body portion being enlarged to form an annular rim which is interiorly screw-threaded, a cap or cover having a depending annular body portion provided with exterior screw-threads to afford engagement for the parts, the lower part of the depending portion of the cap having formed therein an annular groove, said cap being concave on its upper surface and having formed in the center thereof a cavity or chamber, the lower end of which is open and communicates with a depending tubular extension and a band of resilient material adapted to be secured in said annular groove to render the device air and water tight, said cap having an auxiliary vent or opening formed therein, adapted to be closed by a plug, substantially as described.

In testimony that we claim the foregoing as our invention we have signed our names, in presence of the subscribing witnesses, this 14th day of October, 1896.

ROBERT BELL.
LOUISA HALL.

Witnesses:

JAMES OSBORNE DAVISON,
WILLIAM DIXON.