

No. 744,522.

PATENTED NOV. 17, 1903.

M. D. GAINES.
INK WELL FOR SCHOOL DESKS.

APPLICATION FILED MAR. 29, 1902. RENEWED SEPT. 29, 1903.

NO MODEL.

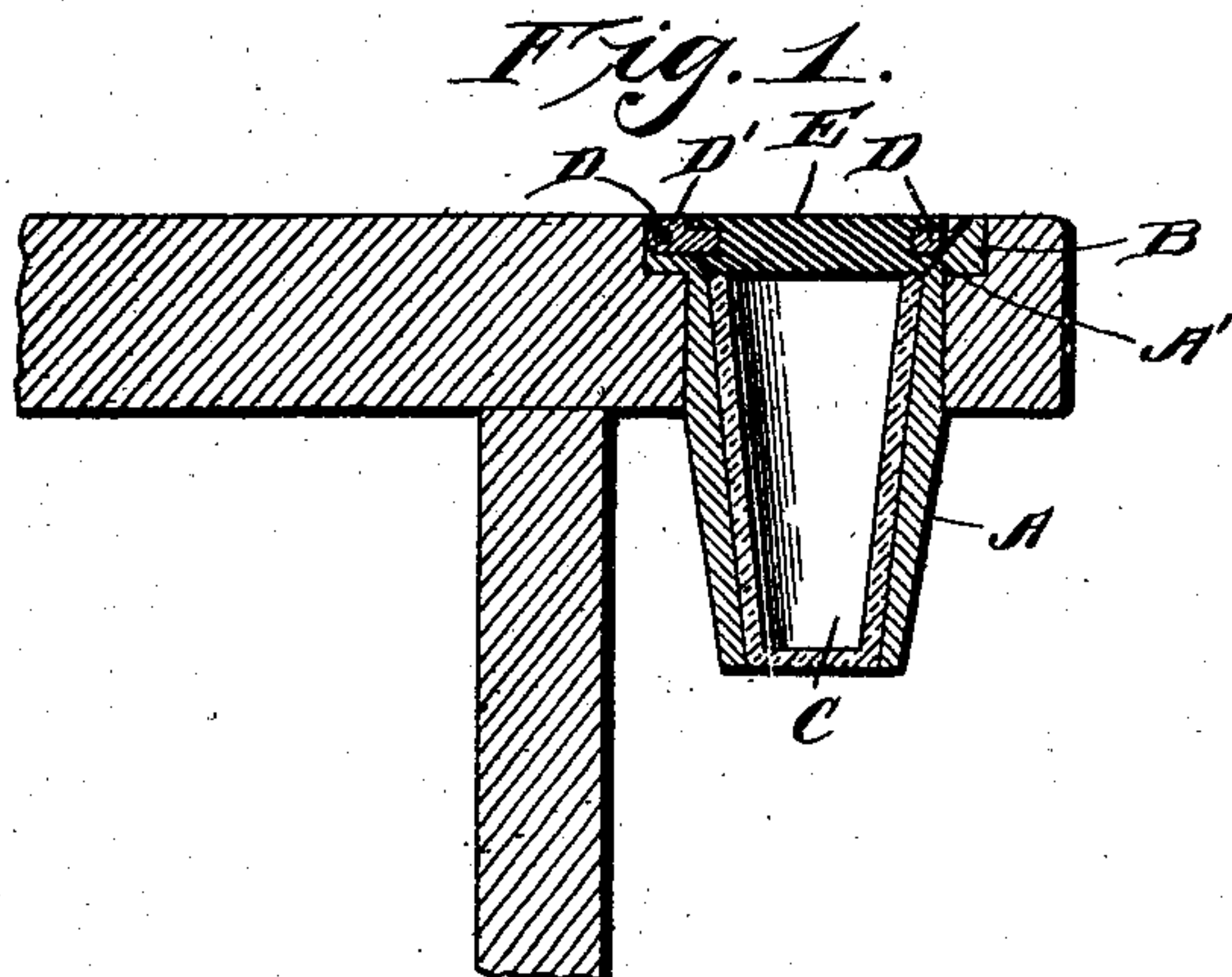


Fig. 2.

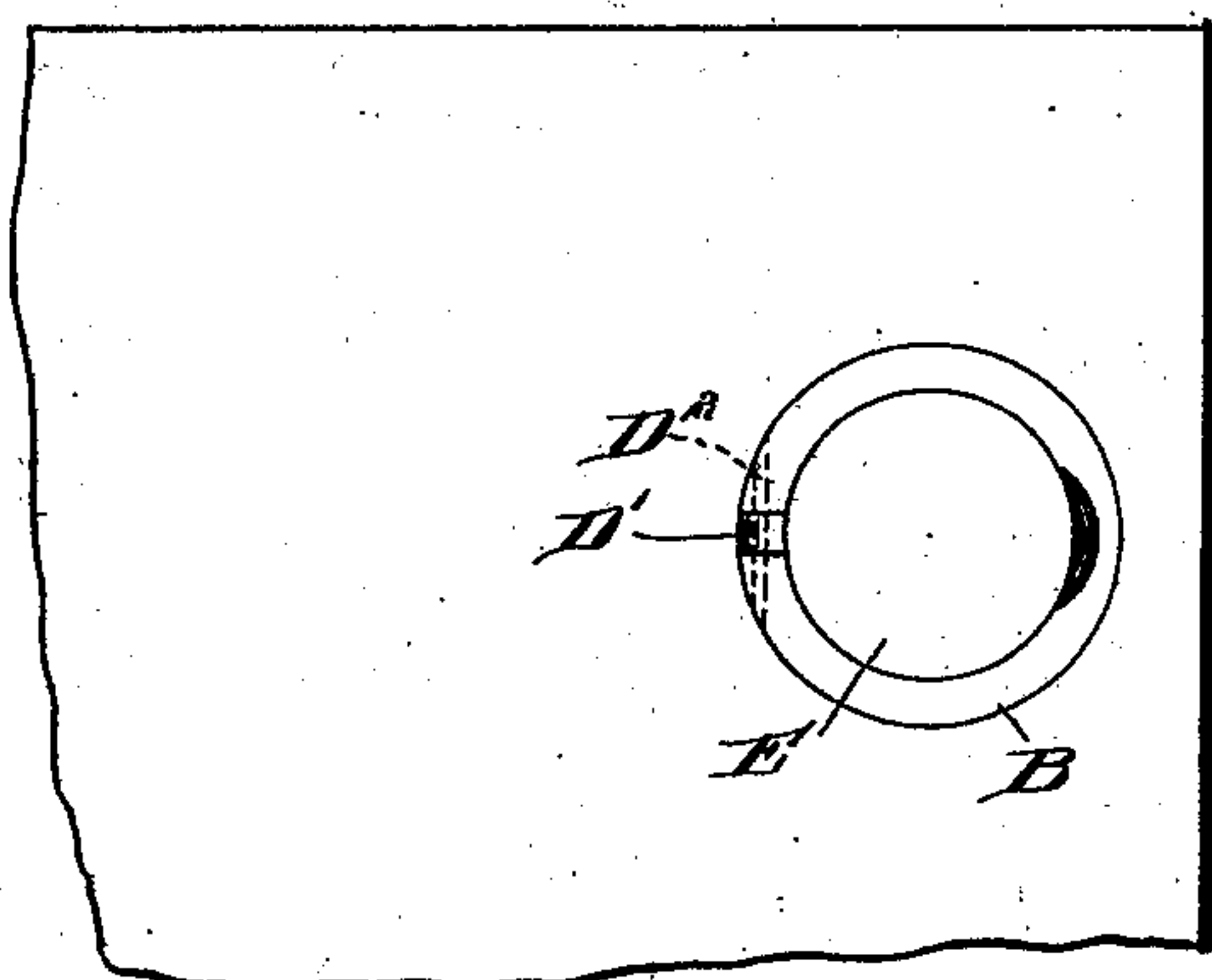


Fig. 3.

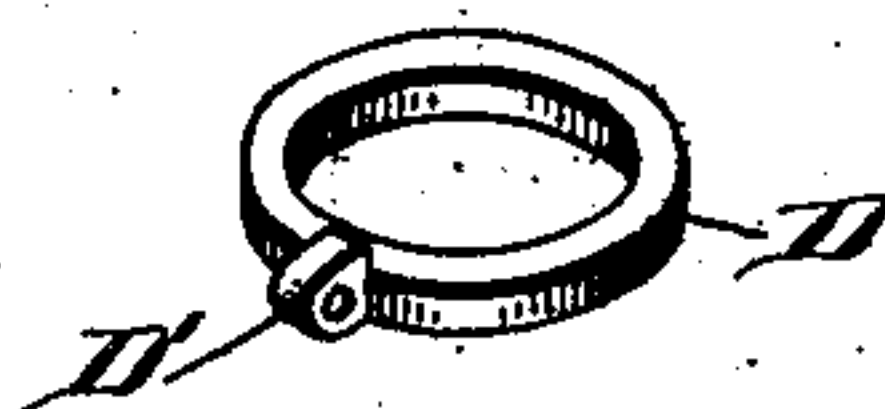
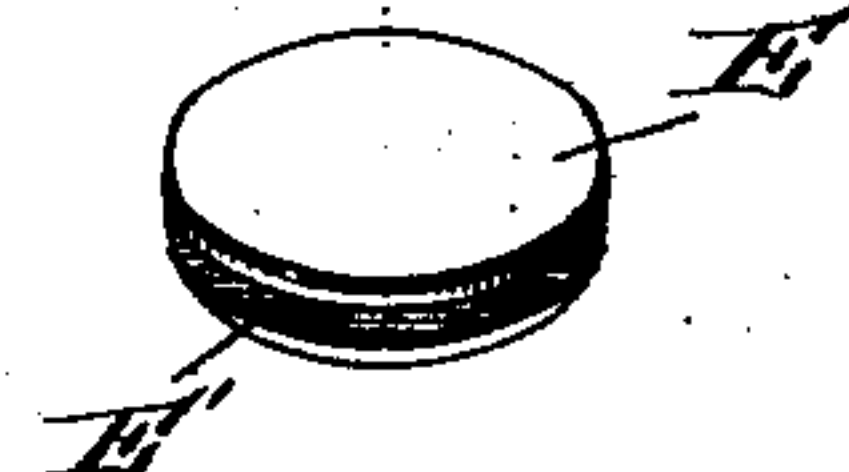


Fig. 4.



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UNITED STATES PATENT OFFICE.

MICAJAH D. GAINES, OF COLORADO SPRINGS, COLORADO.

INK-WELL FOR SCHOOL-DESKS.

SPECIFICATION forming part of Letters Patent No. 744,522, dated November 17, 1903.

Application filed March 29, 1902. Renewed September 29, 1903. Serial No. 175,099. (No model.)

To all whom it may concern:

Be it known that I, MICAJAH D. GAINES, a citizen of the United States, residing at Colorado Springs, county of El Paso, and State of Colorado, have invented a certain new and useful Improvement in Ink-Wells for School-Desks, of which the following is a specification.

My invention relates to a new and useful improvement in ink-wells for school-desks, and has for its object to provide an ink-well which may be fitted to a desk without the use of special tools and which will be so constructed that the glass well cannot become easily broken and will be fitted with a cover made of rubber, which will effectually seal the well, when the same is closed, against the evaporation of the ink, and this cover will also form a cushion to do away with the noise in opening and closing the same.

With these ends in view this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, the construction and operation will now be described in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a sectional view of a portion of the desk, showing my improved ink-well applied thereto; Fig. 2, a plan view of Fig. 1; Fig. 3, a perspective view of the metallic ring in which the rubber cover is held; Fig. 4, a perspective view of the rubber cover removed from the ring.

In ink-wells ordinarily used in school-desks the well is so constructed that it will require special tools to make the opening through the desk in which the well is fitted, and these wells are so placed in the desk that they protrude through the top of the same into the book-compartment underneath. This is a great objection, as the books are liable to come in contact with the well and either break the same or jar the well, so that some of the ink will be spilled, which in such a case will run down and be liable to spoil the books. Another disadvantage of wells of the ordinary construction is that metallic covers

are used, which not only are the cause of much unnecessary noise in the school-room by the opening and closing of the same, but also do not always fit the well sufficiently close to prevent evaporation of the ink even while the well is closed. In my invention I overcome these disadvantages by the use of an exterior metallic casing A, which is cylindrical and has a tapering opening therethrough. The upper end of the casing A has formed therewith a flange B, which is also circular, so that in fitting this casing A to the desk it is only necessary to bore a hole through the desk large enough to fit the exterior casing below the flange B and then to make a counterbore of sufficient size to allow the flange B to fit into the same and be flush with the top of the desk. This well I prefer to place in the right-hand upper corner of the desk and through the top of the desk, which overhangs, so that the well does not protrude into the book-compartment, but upon the outside of the desk. Thus I am able to make the well much deeper than ordinary wells, because of the fact that nothing is liable to come in contact with the same. Upon the interior of the casing A is fitted a tapering glass ink-well C, which may be inserted in the casing from the top, and as the casing is formed without any bottom the well C may be easily removed by pressing upward upon the same from underneath.

D is a metallic ring which has formed with it a lug D', which lug is adapted to fit in the cut-away portion of the flange B of the casing, and then a pin D² is inserted through the flange and also through the lug D' to form a hinge.

E is a rubber disk having formed therein around its periphery the annular groove E', in which the ring D is adapted to fit and hold the disk E in place. This disk, together with the ring D, forms the cover for the ink-well, and the interior of the casing A is beveled at the point A', and the lower edge of the disk E is also beveled to correspond with the same, so that the beveled portion A' forms a seat for the cover, which will effectually seal the well against evaporation of the ink when the cover is closed.

The advantage of my invention aside from its simplicity and cheapness of construction

is that by being able to place the well upon the outside of the desk the same may be deep and small in diameter, thus exposing only a small quantity of ink to the atmosphere, so as to reduce the evaporation even when the well is open, and by the use of my cover or lid I make the same perfectly air-tight when the well is closed, so as to prevent all evaporation at that time, and a further advantage is the prevention of all noise on account of the rubber cover or lid and also the ease in opening and closing the cover, so that a small child can easily operate the same.

Of course I do not wish to be limited to the exact construction here shown, as slight modifications could be made without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is—

1. In an ink-well for school-desks, a cylindrical casing, an annular flange formed upon the outside of the casing around the upper edge, said casing and flange adapted to fit in an opening formed in the desk so that the upper edge of the flange will be flush with the top of the desk, a tapering ink-well fitted upon the interior of the casing, a ring, a lug secured to the ring, said lug hinged to the projecting flange, a rubber disk fitted within the ring and adapted to close over the ink-well so as to form a cover for the same, as and for the purpose specified.

2. In an ink-well of the character described, a cylindrical casing, an annular flange formed around the upper outside edge of said casing, said casing and flange fitted in the desk so that the upper edge of the flange will be flush with the top of the desk, said casing provided with a vertical tapering opening open at the top and bottom, a glass tapering ink-well adapted to be fitted within the tapering opening of the casing, a ring, a lug formed with the ring, a cut-away portion formed in the annular flange in which the lug is adapted to fit, a pin passing through the annular flange and also through the lug to form a hinge, a rubber disk having an annular groove formed in its periphery, said disk adapted to be fitted to the ring so that the ring will lie in the annular groove, and the disk and the ring will form the cover for the well, an annular beveled surface formed around the interior of the upper end of the casing, a beveled surface formed upon the lower edge of the rubber disk adapted to seat against the beveled surface upon the casing, as specified.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

MICAJAH D. GAINES.

Witnesses:

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