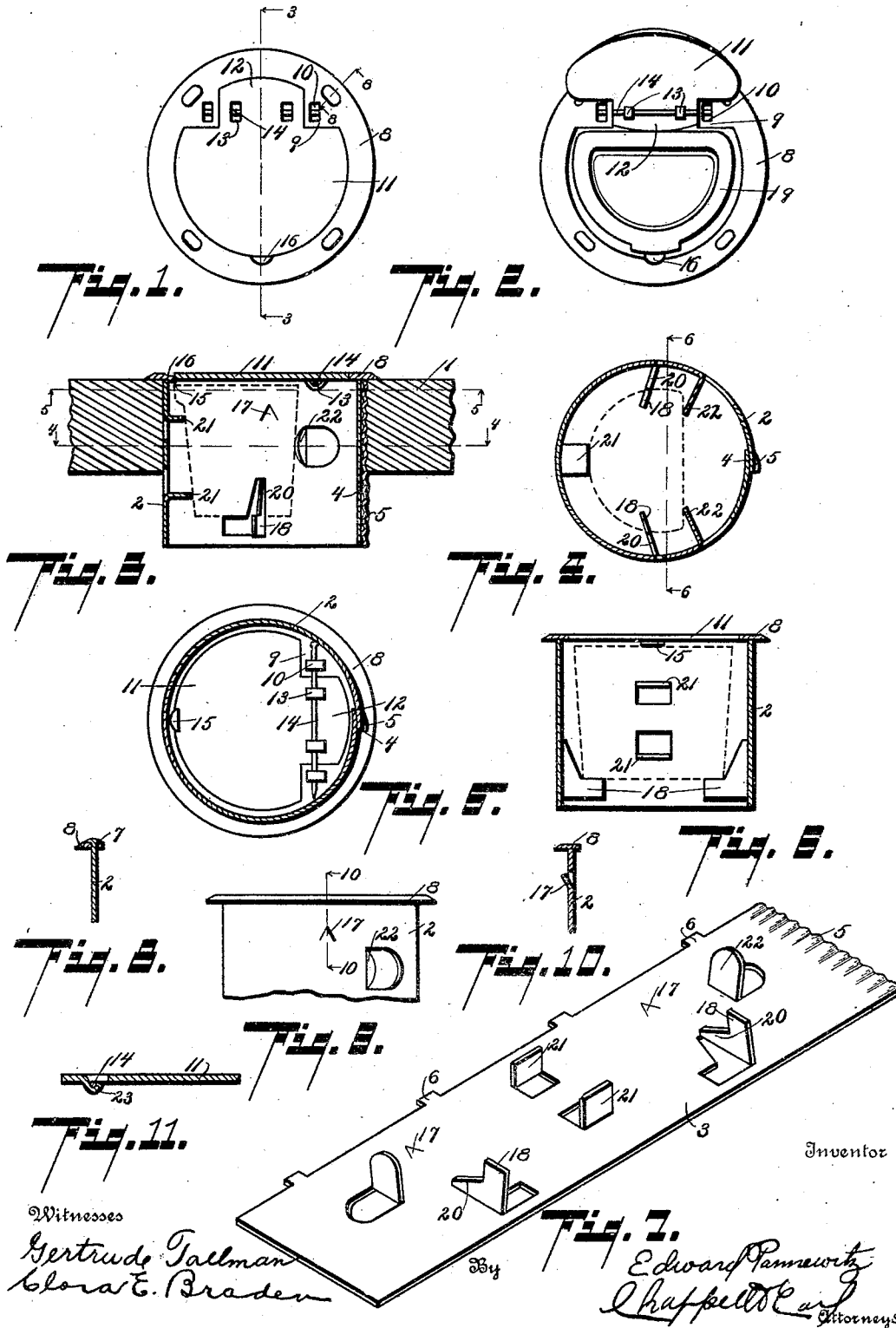


E. TANNEWITZ.
INK WELL.
APPLICATION FILED NOV. 23, 1908.

945,060.

Patented Jan. 4, 1910.



UNITED STATES PATENT OFFICE.

EDWARD TANNEWITZ, OF GRAND RAPIDS, MICHIGAN.

INK-WELL.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWARD TANNEWITZ, a citizen of the United States, residing at Grand Rapids, Michigan, have invented certain new and useful Improvements in Ink-
5 Wells, of which the following is a specification.

This invention relates to improvements in ink wells.

10 The main objects of this invention are: First, to provide in an ink well, an improved ink receptacle holder, which may be inserted through a hole in a suitable support, such as a desk top, which is very economical
15 to produce and, at the same time, very satisfactory. Second, to provide in an ink well, an improved ink receptacle holder, which may be inserted through a hole in a suitable support, such as a desk top, and is securely retained therein without the use of screws
20 or nails. Third, to produce in an ink well, an improved ink receptacle holder, which may be inserted through a hole in a suitable support, such as a desk top, and projects but slightly above the surface thereof
25 without the necessity for countersinking therein.

Further objects, and objects relating to structural details, will definitely appear from
30 the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

35 The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing, forming a part of this specification, in which:

40 Figure 1 is a plan of my improved ink well, removed from the support, with the cover closed. Fig. 2 is a plan with the cover open. Fig. 3 is a vertical section, taken on a line corresponding to line 3—3 of Fig. 1, the support 1 being shown in conventional
45 form, the receptacle 19 being indicated by dotted line. Fig. 4 is a horizontal section taken on a line corresponding to line 4—4 of Fig. 3, the support being omitted. Fig. 5 is a horizontal section taken on a line corresponding to line 5—5 of Fig. 3, the support
50 being omitted. Fig. 6 is a vertical section taken on a line corresponding to line 6—6 of Fig. 4. Fig. 7 is a perspective view of the blank from which the barrel of the holder is formed. Fig. 8 is a detail vertical

section taken on a line corresponding to line 8—8 of Fig. 1, showing the rivet connection for the barrel to the top. Fig. 9 is a detail side elevation showing one of the retaining
60 teeth or lugs for the holder in the support. Fig. 10 is a detail vertical section taken on a line corresponding to line 10—10 of Fig. 9. Fig. 11 is a detail section showing a modified form of the loops for the pivot pin
65 of the cover.

In the drawings, similar reference characters refer to similar parts throughout the several views, and the sectional views are taken looking in the direction of the little
70 arrows at the ends of the section lines.

Referring to the drawing, 1 represents the support, such as the top of a desk, or the like. The ink well receptacle holder preferably consists of a barrel or body portion
75 2, and is formed of a piece of sheet metal 3, see Fig. 7, rolled into cylindrical form with its edges 4 overlapped. The outer edge of the barrel is preferably corrugated, thereby forming support-engaging
80 projections 5. The corrugations are, however, satisfactory.

On the upper edge of the barrel, I form rivets 6 which are arranged through slots 7 provided therefor in the rim 8 of the cover.
85 This rim is secured upon the barrel like a flange, the rivets being arranged through the slots 7, and upset, as clearly appears from the drawing. See Figs. 1 and 8. The rivets 6 are preferably so located that there is a
90 rivet at each side of the overlapped edges of the barrel, which holds them in position, the edges being thereby permitted to act as springs.

The rim 8 is provided with a pair of inwardly-projecting hinge portions 9, having
95 strap-like hinge loops 10, punched downwardly therefrom. The cover 11 is provided with a hinge portion 12 on its inner edge, adapted to fit between the hinge portion 9
100 of the rim. The cover is also provided with strap-like hinge loops 13 on its under side, the loops being punched down from the cover. The pivot pin 14 is arranged through these loops on the rim portion of the top
105 and on the cover, and is retained therein by means of the barrel, the pivot being inserted before the cover is secured to the barrel. For this pivot I preferably use a brad,
110 as illustrated. The cover is thus supported so as to lie flush with the upper surface of the rim. The cover is supported in its closed

position by a stop 15, which is preferably formed by drawing in and depressing a portion of the inner edge of the rim, and this also forms a slit or opening 16 for the engagement of the edge of the cover.

While the engaging members 5 on the edge of the barrel are ordinarily all that is required, it is sometimes desirable to more securely retain the barrel within the support, and to effect this, I provide the V-shaped teeth 17, which are struck out from the barrel, the teeth being directed upwardly, so that when it is attempted to lift the barrel from its support, they engage the support effectively. When the teeth are to be made use of, they are driven into engagement with the support by means of a nail punch or the like. This is especially desirable where the ink well is to be used on school desks, as it secures them so that they cannot easily be removed.

The rests 18 for the receptacle 19 are cut out and turned inwardly from the wall of the barrel, preferably provided with inclined edges 20, which serve to center the barrel. The ink receptacle is supported upon these rests by the inwardly-turned lugs 21 and 22, the lugs 21 engaging the front of the receptacle while the lugs 22 engage the back. The receptacle is thus secured so that it can be dropped into place upon the rests and conveniently removed, as desired, and is, at the same time, supported so that it cannot be upset in the holder.

By forming the parts as I have illustrated and described, the blanks for the barrel can be blanked out from sheet metal, and rolled into cylindrical form and retained in that form by means of the continuous rim 8. The top,—that is, the rim and cover—is formed of a single piece of sheet metal, the cover being died or cut from the rim. This I am enabled to do and the structure is complete, in view of the location and form of the hinge loops. In practice, the rim is slightly expanded after the cover is cut therefrom to enlarge the same so that an easy fit for the cover is secured. The edge of the rim is preferably beveled, as clearly appears from the drawing, so that a paper, or book, or the like, will easily slip over the same, and I thus avoid the necessity for countersinking into the desk or support.

In the modified construction shown in Fig. 11, the hinge loop 23 is cut loose or free at one end. Other modifications in the structural detail of my improved ink well will readily appear to those skilled in the art to which this invention relates, and I, therefore, do not illustrate or describe them herein.

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

1. A holder for ink well receptacles com-

prising a barrel; a top consisting of a rim, having strap-like pivot loops thereon; a cover having strap-like pivot loops thereon; a pivot pin arranged through said pivot loops and retained therein by said barrel; and a stop on said rim for the cover formed by off-setting a portion of said rim thereby forming a slit between the cover and rim to permit the engagement of the lid for opening the same.

2. A holder for ink well receptacles, comprising a barrel; a top therefor consisting of a flange-like rim secured to said barrel; a cover adapted to close flush within said rim; strap-like pivot loops on the under side of said rim; strap-like pivot loops on the under side of said cover; a pivot pin arranged through said loops; and a stop lug for said cover offset from the inner edge of said rim, the said offset forming an opening at the edge of said cover.

3. The combination with a support having a hole therethrough, of an ink receptacle; a holder for said ink receptacle comprising a barrel formed of a piece of sheet metal rolled in a cylindrical form, with its edges overlapped, the outer edge having support-engaging projections thereon, said barrel having integrally formed rivets on its upper end, and out-turned support-engaging lugs; and a continuous flange-like rim through which said rivets are arranged, there being a rivet located at each side of the edges of said barrel and in a spaced relation thereto.

4. The combination with a support having a hole therethrough, of an ink receptacle; a holder for said ink receptacle comprising a barrel formed of a piece of sheet metal rolled into a cylindrical form, with its edges overlapped, the outer edge having support-engaging projections thereon, said barrel having integrally formed rivets on its upper end, and out-turned support-engaging lugs; and a flange-like rim through which said rivets are arranged.

5. The combination with a support having a hole therethrough, of an ink receptacle; a holder for said ink receptacle comprising a barrel formed of a piece of sheet metal rolled into a cylindrical form, with its edges overlapped, the outer edge having support-engaging projections thereon, said barrel having integrally formed rivets on its upper end; and a continuous flange-like rim through which said rivets are arranged, there being a rivet located at each side of the edges of said barrel and in a spaced relation thereto.

6. The combination with a support having a hole therethrough, of an ink receptacle; a holder for said ink receptacle comprising a barrel formed of a piece of sheet metal rolled into a cylindrical form, with its edges overlapped, the outer edge having support-en-

gaging projections thereon, said barrel having integrally formed rivets on its upper end; and a flange-like rim through which said rivets are arranged.

5 7. The combination with a support having a hole therethrough, of an ink receptacle; a holder for said ink receptacle comprising a barrel formed of a piece of sheet metal rolled into a cylindrical form, with its edges overlapped, the outer edge having support-engaging projections thereon, said barrel having out-turned support-engaging lugs struck out therefrom; and a flange-like rim secured to the upper edge of said barrel.

15 8. The combination with a support having a hole therethrough, of an ink receptacle; a holder for said ink receptacle comprising a barrel formed of a piece of sheet metal rolled into a cylindrical form with its edges overlapped, the outer edge having support-engaging projections thereon; and a flange-like rim secured to the upper edge of said barrel.

25 9. A holder for ink well receptacles, comprising a barrel formed of a piece of sheet metal rolled into a cylindrical form, said barrel having integrally formed rivets on its

upper end, and a continuous flange-like rim secured to said barrel by said rivets.

10. In an ink well, the combination with 30 an ink receptacle, of a holder comprising a barrel formed of sheet metal, and having inwardly-projecting oppositely disposed receptacles rests at its lower end, said rests having downwardly-inclined edges whereby 35 the ink receptacle is centered in said holder; and inwardly-projecting tongues on said barrel adapted to engage the sides of said ink receptacle.

11. In an ink well, the combination with 40 an ink receptacle, of a holder comprising a barrel formed of sheet metal, and having inwardly-projecting oppositely disposed receptacle rests at its lower end, said rests having downwardly-inclined edges whereby the 45 ink receptacle is centered in said holder.

In witness whereof, I have hereunto set my hand and seal in the presence of two witnesses.

EDWARD TANNEWITZ. [L. S.]

Witnesses:

JOS. O. BELLAIR,

CARL E. DANNEMTY.