

(No Model.)

W. E. SMITH.

INK WELL.

No. 261,776.

Patented July 25, 1882.

Fig. 1.

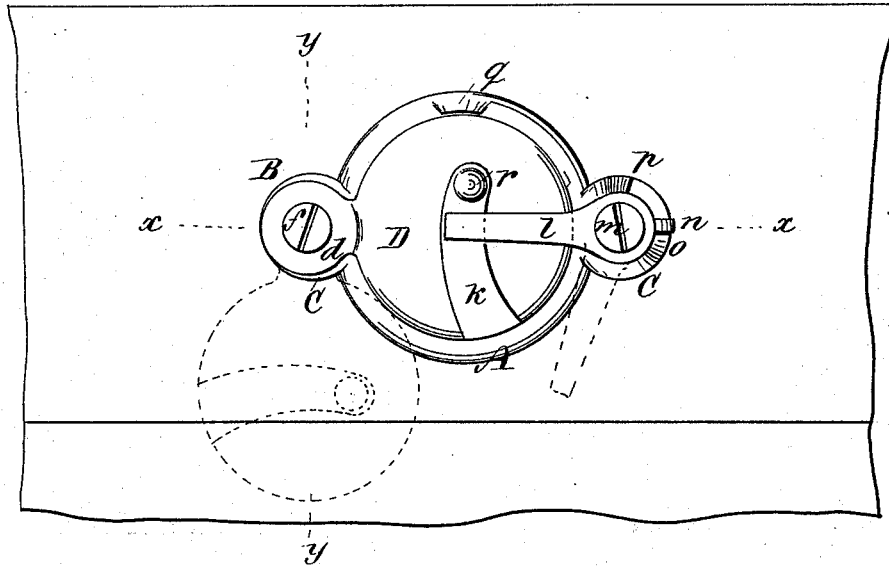


Fig. 2.

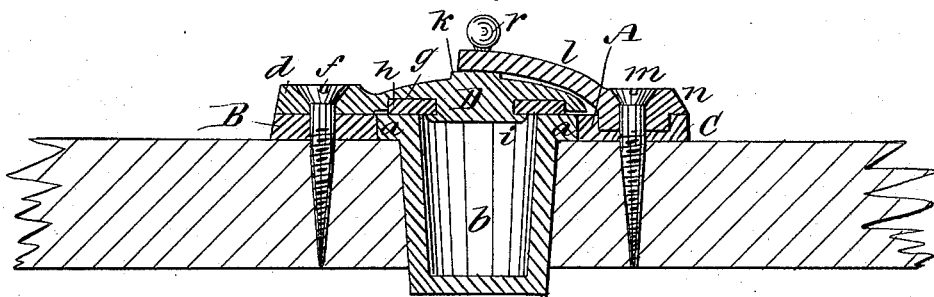
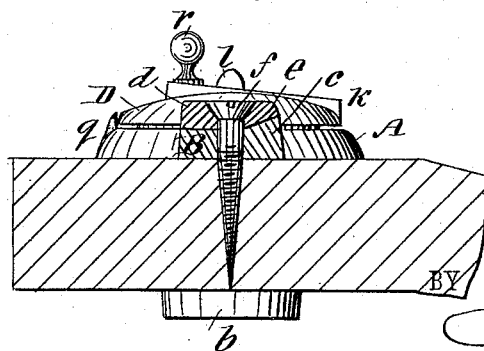


Fig. 3.



WITNESSES:

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WILLIAM EMERSON SMITH, OF BERWICK, PENNSYLVANIA.

INK-WELL.

SPECIFICATION forming part of Letters Patent No. 261,776, dated July 25, 1882.

Application filed March 24, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM EMERSON SMITH, of Berwick, in the county of Columbia and State of Pennsylvania, have invented a new and useful Improvement in Ink-Wells, of which the following is a full, clear, and exact description.

My invention relates to ink-wells for school desks; and it consists in a pivoted cover provided with a yielding packing and pressed down upon the top of the ink-well by a pivoted curved arm engaging an inclined surface on the top of the cover.

The object of this invention is to provide a ready means of hermetically closing the ink-well when not in use to avoid deterioration and waste of the ink by evaporation and dust.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of my improved ink-well. Fig. 2 is a vertical transverse section taken on line *x x* in Fig. 1. Fig. 3 is a vertical section taken on line *y y* in Fig. 1.

A is an annular frame, surrounding the flange *a* of the ink-well *b*, and having ears B C, projecting from diametrically-opposite edges. The ear B is centrally apertured, and a portion of its upper face upon one side of the aperture is beveled, forming a cam, *c*, Fig. 3.

The cover D has a circular ear, *d*, which is the counterpart of the ear B, having a beveled surface, *e*, Fig. 3, adapted to the cam *c*. The ear *d* is perforated to receive a screw, *f*, which also passes through the ear B into the top of the desk or table to which the ink-well is applied. There is an annular groove, *g*, in the under surface of the cover D, for receiving the yielding packing-ring *h*, which is held in its place by the flange *i* on the central portion of the cover. The yielding packing-ring *h* is smaller in diameter both internally and externally than the top of the ink-well *b*, and shuts down upon the top inner edge of the well. The cover D turns loosely on the screw *f*, and the beveled face *e* of the ear on the cover, by engaging the cam *c* on the ear B, as

the cover is turned to open the ink-well, raises the cover, freeing the flange *i*, so that the cover may readily be turned back out of the way. On the back of the cover D there is a curved inclined ridge, *k*, which is highest in the middle of the cover. An arm, *l*, pivoted on a screw, *m*, passing through the ear C, engages the inclined ridge *k* and presses the cover down upon the ink-well. The arm *l* is provided with a lug, *n*, moving between lugs *o p* on the ear C, which limit the movement of the arm.

The frame A is provided with a lug, *q*, which limits the motion of the cover D in one direction, stopping it centrally over the ink-well *b*. The ink-well *b* is placed in a hole bored in the top of the desk, its flange *a* resting on the top of the desk on the same plane with the annular frame A. The screws *f m* serve to secure the frame A to the desk as well as to form pivots for the cover and its fastening.

For convenience in opening and closing the cover D, I have applied to it a small knob, *r*.

The well *b* may be made of glass, porcelain, or other material capable of resisting the action of the ink, and the cover with its frame and fastening may be made of iron japanned, tinned, bronzed, or nickled, or of any other desirable material.

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

1. In an ink-well, the annular frame A, having the ear B and cam *c*, in combination with the cover D, having an ear *d*, with the beveled surface *e*, substantially as specified.

2. In an ink-well, the combination of the cover D, having the packing-ring *h* and inclined ridge *k*, the arm *l* and annular frame A, as herein specified.

3. In an ink-well, the well *b*, having the flange *a*, the cover D, having the packing-ring *h*, and provided with inclined ridge *k*, the annular frame A and the pivoted arm *l*, in combination, substantially as specified.

WILLIAM EMERSON SMITH.

Witnesses:

C. B. JACKSON,
H. F. GLENN.