

(No Model.)

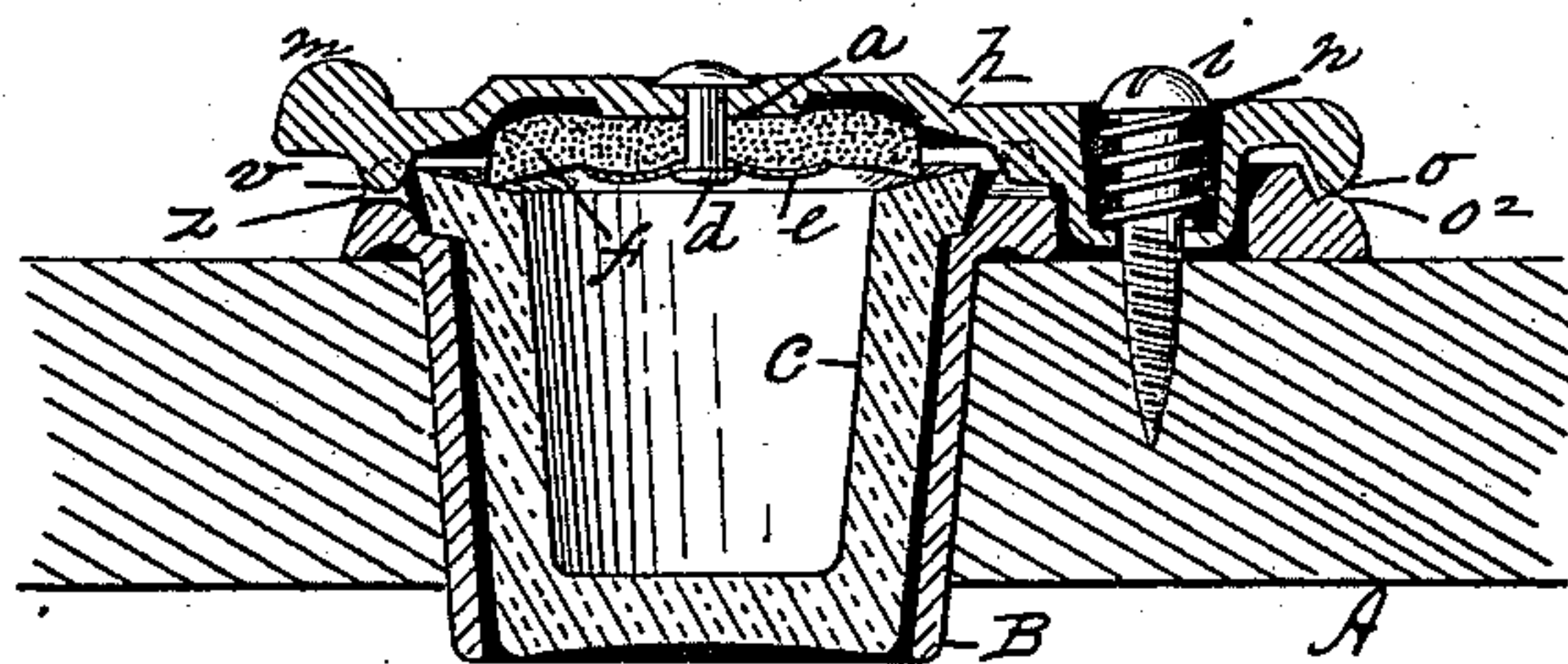
J. H. GIFFORD.

INK WELL.

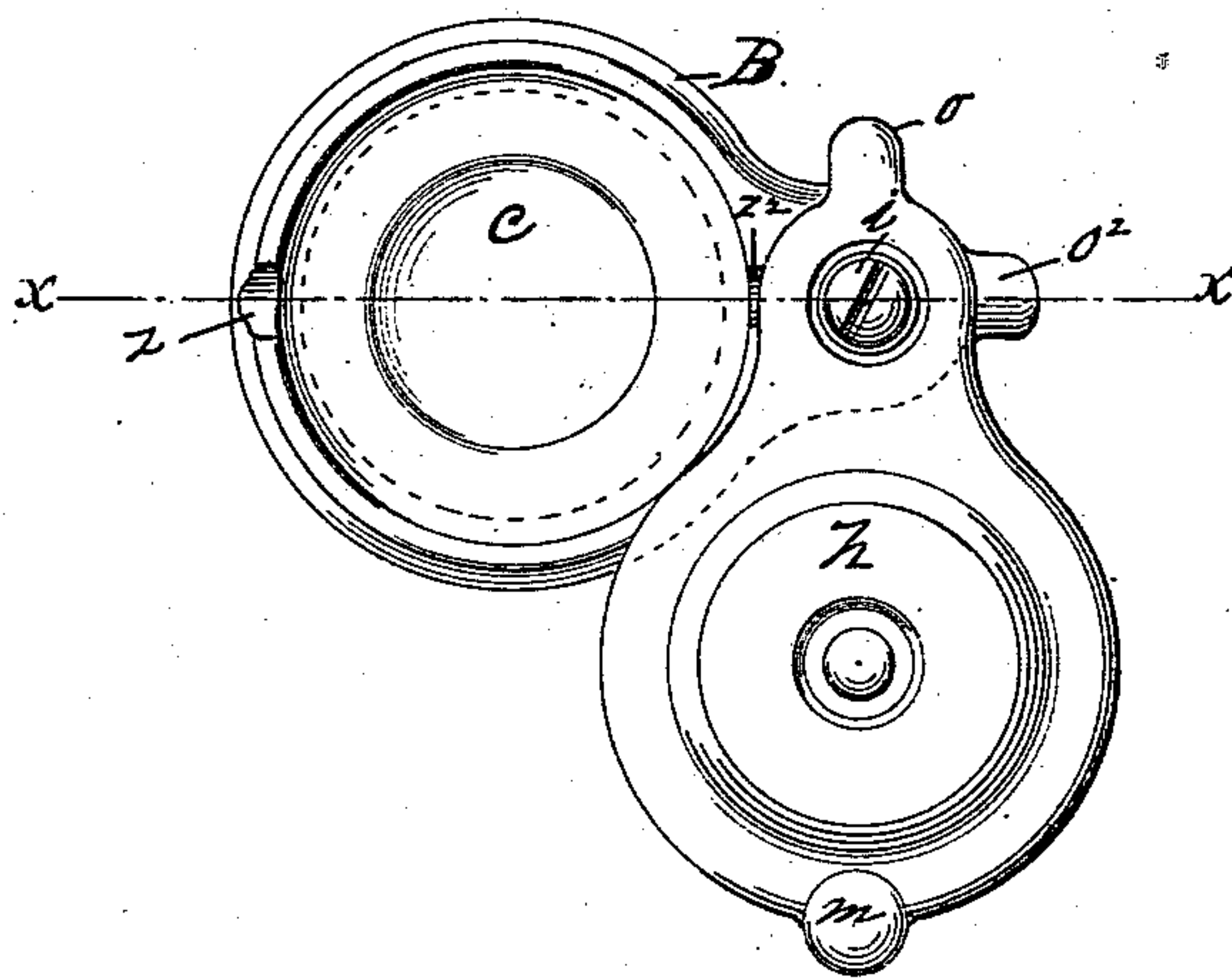
No. 297,378.

Patented Apr. 22, 1884.

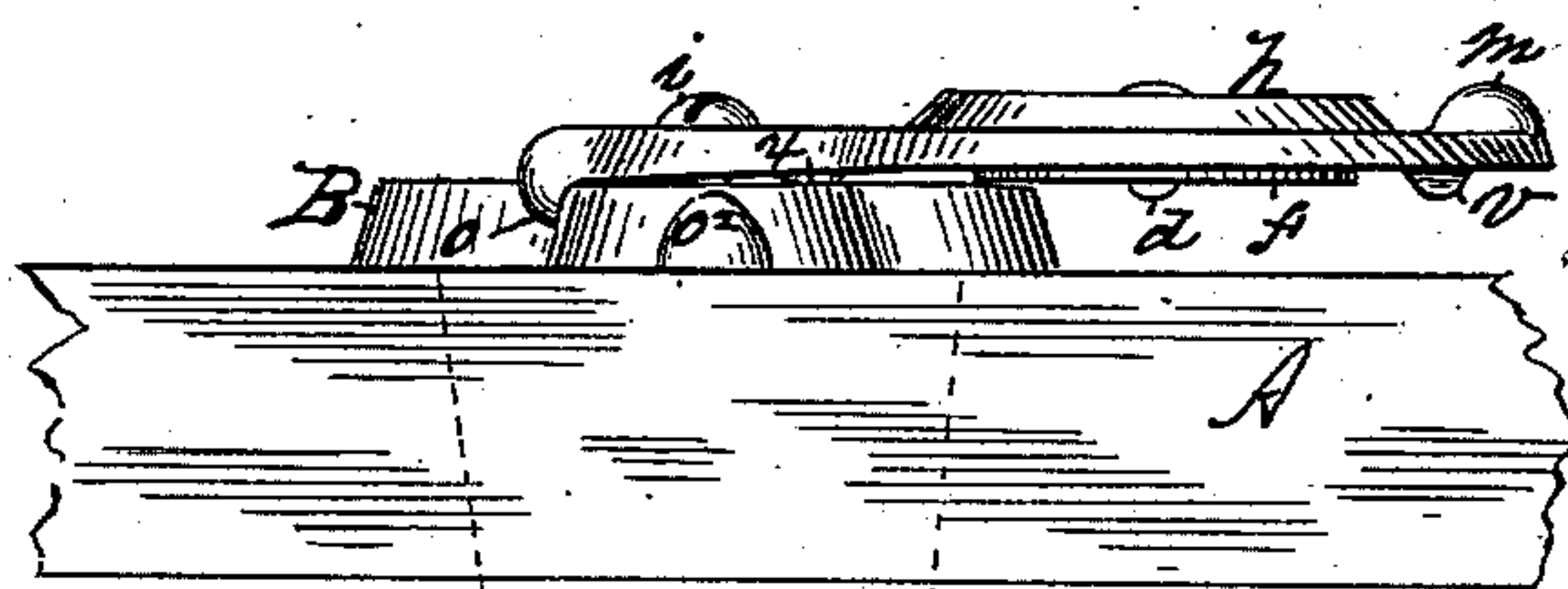
*fig 1*



*fig 2*



*fig 3*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## INK-WELL.

SPECIFICATION forming part of Letters Patent No. 297,378, dated April 22, 1884.

Application filed September 17, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN H. GIFFORD, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Ink-Wells, of which the following is a specification.

This invention relates to improvements in ink-wells for school and other desks, and has reference particularly to an improved construction of the ink-well case and the cover therefor combined, the object being to provide a construction which shall project but slightly above the surface of the desk, be easy of manipulation, and close the ink-well tightly when the cover is swung over it.

In the drawings forming part of this specification, Figure 1 is a sectional view on line  $x\ x$ , Fig. 2, of an ink-well and case constructed according to my invention. Fig. 2 is a plan view with the cover swung off. Fig. 3 is a rear elevation with the parts in the same position in which they are shown in Fig. 2.

In the drawings, A represents a section of a desk perforated to receive that portion of the case B which receives the ink-well proper,  $c$ . The case B, made preferably of cast metal, is adapted to receive within it the ink well or cup  $c$ , of cylindrical form, the latter having a projecting border standing slightly above the plane of the case which surrounds it, whose upper surface inclines toward the center of the well. That part of the case B which surrounds the border of the well  $c$  is provided with two depressions,  $z$  and  $z^2$ , opposite each other, and the case has a rearwardly-located arm-like extension, which is perforated, as shown in Fig. 1, and the end of the latter has thereon a cam-point,  $o^2$ . The cover  $h$  is of a form corresponding in outline to the case B, and has on its front end a push-knob,  $m$ , and on its under side two projecting points,  $v$  and  $x$ , which, when the cover is in the position shown in Fig. 1, drop, respectively, into the aforesaid depressions  $z$  and  $z^2$ . That part of the cover which reaches over the said extension on the case is provided with a spring-socket to receive the spring  $n$ , and a screw,  $i$ , passes through said spring and the bottom of said socket and enters the desk A, whereby the apparatus is secured to the latter and the

cover is retained in proper operative position on the case. The extreme end of cover  $h$  over the cam-point  $o^2$  is provided with a like point,  $o$ , which, when the cover is in a closed position, as in Fig. 1, so engages with point  $o^2$  that they stand end to end, as there shown. Cover  $h$  has a disk,  $f$ , of cork or similar elastic material, secured to its under side, as shown, by a rivet,  $d$ , which is headed down upon a washer,  $e$ , which lies against the said disk. Disk  $f$  is secured upon a circular boss,  $a$ , on cover  $h$ , of less diameter than the disk and than that of the washer  $e$ , so that when that part of the disk  $f$  between the washer and the cover is compressed by riveting the disk will assume the form shown in Fig. 1, whereby the lower edge of its border is made to strike the flange on the receptacle  $c$  when the cover is over the latter. By arranging the disk  $f$ , as described, so that only a narrow edge thereof bears upon the flange of the ink-receptacle, the latter is by the use of a spring of moderate force, and other means hereinafter set forth, kept tightly closed, and the ink is prevented from evaporating.

Fig. 2 represents the apparatus when the cover is swung around to uncover the receptacle  $c$ , that the ink therein may be used. The screw  $i$  is turned down sufficiently to compress spring  $n$  and draw the parts of the cover and case through which the screw passes one against the other by the compress force of the spring. When the cover  $h$  is turned from the position shown in Fig. 2 to that shown in Fig. 1, to close the ink cup or receptacle  $c$ , the point  $x$  on the cover near screw  $i$  bears on the case, and keeps the face of the cork disk  $f$  high enough to clear the flange of the receptacle until the disk is brought to a proper position over the latter, when said point reaches the depression  $z^2$  in the case, and point  $v$  is at the same time brought over the depression  $z$ , leaving the cover free to be forced downward by the spring  $n$  and the action of the cam-points  $o$  and  $o^2$ , which slide one upon the other and operate to increase the pressure of the disk upon the flange of the cup  $c$ , closing the latter very tightly. The engagement of the point  $v$  in the depression  $z$  when the ink-well is closed serves to secure the cover, so that it may not be accidentally pushed out of place. In open-



ing the well, as soon as the cover is slightly turned to one side, point *o* passes off from point *o*<sup>2</sup>, and point *x* causes the cover to be lifted off from the cup *c*, so that the cover may be easily turned.

When it is desired to construct a more expensive and ornamental apparatus, but still embodying the operative elements of the one herein described, the case B may be made entirely of glass, having the cylindrical part thereof, in which the cup *c* is, provided with a bottom, and with a flange, on which disk *f* may bear, and the cup *c*, as a separate element, be dispensed with; or all of the case except that part under the part of the cover in which the spring-socket is may be dispensed with, and an ornamental glass inkstand be arranged with which the swinging cover may operate as described.

What I claim as my invention is—

1. In an ink-well, an ink-receptacle, a case

to receive the same, said case having a side extension, a cover pivoted to said extension and having a bearing, as *o*, as described, which engages a bearing, as *o*<sup>2</sup>, to lift the rear part of the cover when closed, and a spring held to bear upon the cover by means of its pivot, all in combination substantially as described.

2. An ink-receptacle, a case to receive the same, having a side projection, a cover pivoted to said projection and pressed down by a spring surrounding the pivot, projections on the cover and the case near the pivot, which tend to lift the cover at its rear end when closed, and a notch and projection at the side of the case and cover opposite the pivot, forming a catch to the cover when closed, all in combination substantially as set forth.

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Witnesses:

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