H. R. CHRISTIANS.

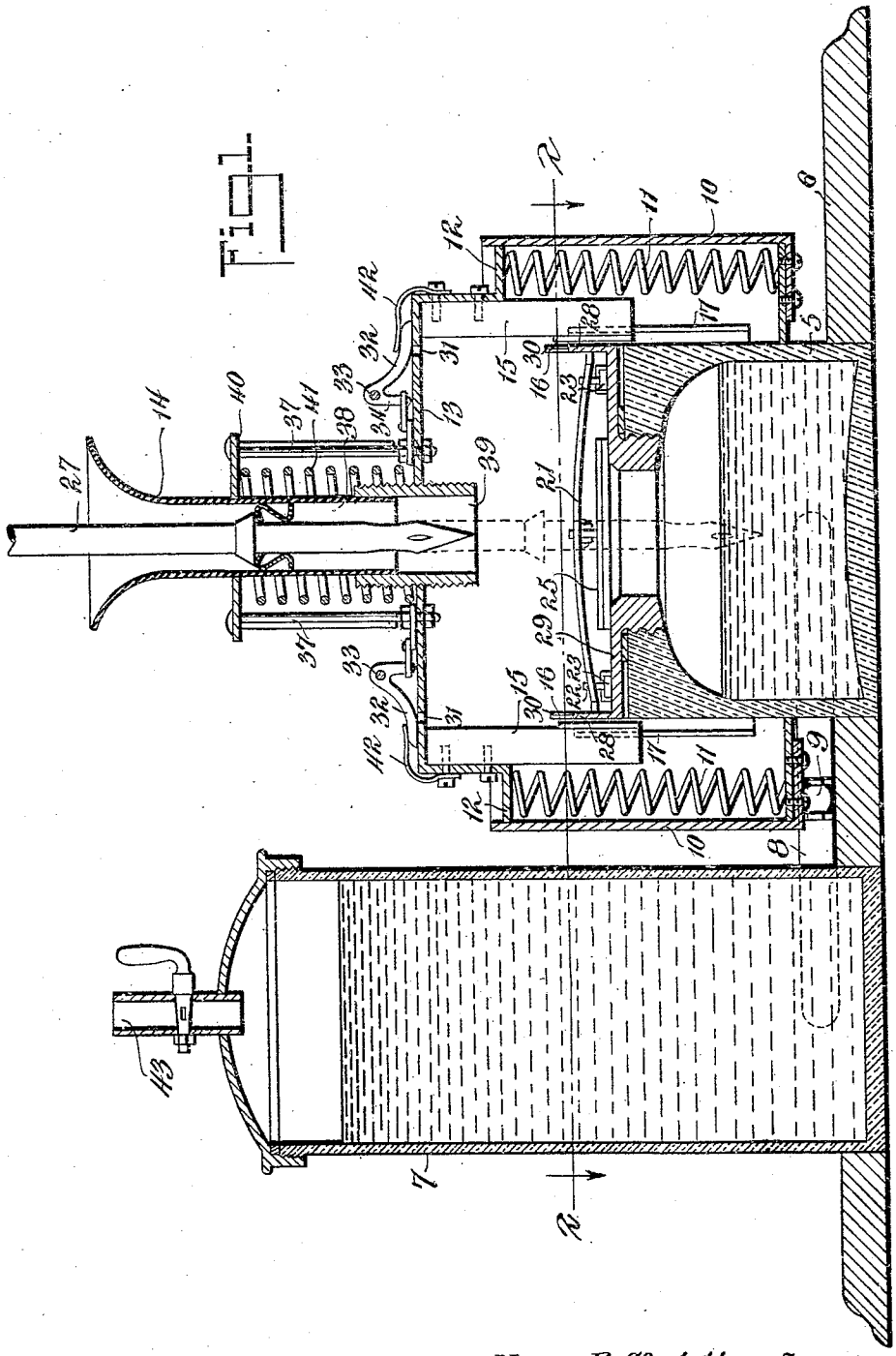
INKSTAND.

APPLICATION FILED FEB. 19, 1908.

941,308. Patented Nov. 23, 1909.

2 SHEETS—SHEET 1.

Fig. 1.



Witnesses.

Louis C. Starke

Jos. Garner

Hans R. Christians, Inventor

By his Attorney Victor J. Evans

H. R. CHRISTIANS.

INKSTAND.

APPLICATION FILED FEB. 19, 1908.

941,308.

Patented Nov. 23, 1909.

2 SHEETS—SHEET 2.

Fig. 2.

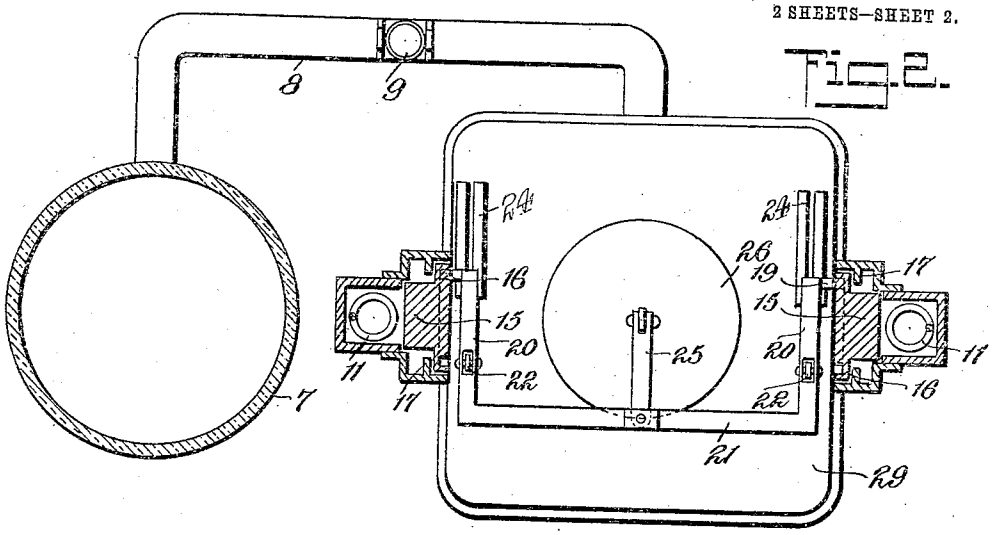


Fig. 3.

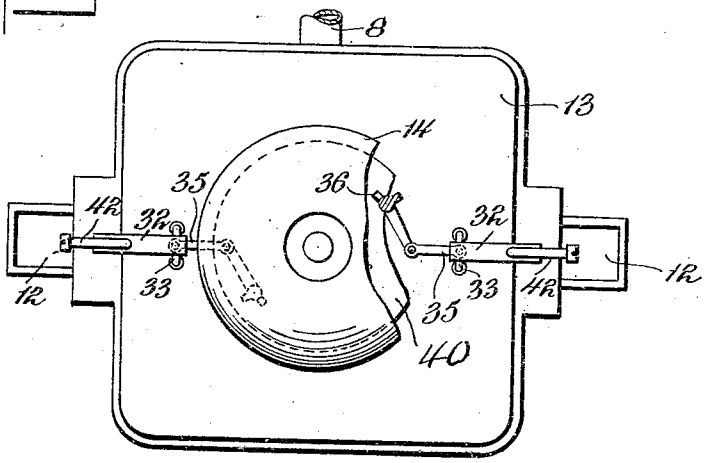
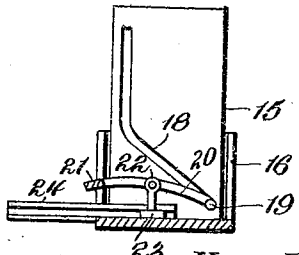


Fig. 4.



Witnesses

Louis C. Starker

K. Allen

Hans R. Christians, Inventor

By Attorney Victor J. Evans

UNITED STATES PATENT OFFICE.

HANS R. CHRISTIANS, OF BROOKLYN, NEW YORK.

INKSTAND.

941,308. Specification of Letters Patent. Patented Nov. 23, 1909.

Application filed February 19, 1908. Serial No. 416,713.

To all whom it may concern:

Be it known that I, HANS R. CHRISTIANS, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Inkstands, of which the following is a specification.

This invention relates to ink stands and its object is to provide a device for holding ink and having a cover which normally closes the ink well but by means of the pen holder and the act of inserting same in the well, the cover is automatically removed and the pen allowed to descend into the ink. Upon the retraction of the pen holder the moving parts return to their normal position as will be more fully described in the following specification, set forth in the claims and illustrated in the drawings, where:

Figure 1 is a central vertical sectional view of the improved ink stand. Fig. 2 is a sectional view on the line 2—2 of Fig. 1. Fig. 3 is a plan view. Fig. 4 is a detailed elevation of the cover controller.

The ink well 5 is let into a base 6 which is also provided with a reservoir 7. A pipe 8 connects the well with the reservoir and a cock 9 allows the supply of ink to enter the well 5 and after a sufficient amount has entered, the cock is closed. The well has at each side chambers 10 to contain springs 11 which support the side extensions 12 of a platform 13 of a size corresponding to the well 5 and adapted to move vertically against the tension of the springs 11. When the pen holder is placed point down in the funnel shaped tube 14 and pressure applied, the platform 13 descends, and the extensions 12 compress the springs 11.

At each side of the platform and beneath same are blocks 15 with flanges to run in the guide ways 17 and in the inner sides of each of these blocks are slots 18 vertical for half their length and then inclined, and in these slots play studs 19 at the ends of levers 20 which are at their other ends connected by a cross bar 21. The levers are fulcrumed at 22 to the slides 23 which run in the guides 24 and as the blocks 15 descend they first depress the ends with the studs and lift the cross bar 21. The upward movement of the cross bar draws upon the link 25 which removes the lid 26 from the mouth of the ink well and it is then free to be removed therefrom. With the further descent of the blocks 15 the inclined portion of the slots forces the studs toward the rear of the ink stand and the cross bar 21 carries the lid 26 from the mouth of the well leaving it open.

During the time that the blocks 15 are descending the platform 13 is also moving down with the pen holder 27 and as it reaches the upturned edges 28 of the plate 29 the pins 30 enter holes 31 of the platform 13 and force upward the arms 32 of bell crank levers 33. These bell crank levers are pivoted on the upper side of the plate 13 and as the arms 32 are forced upward the opposite arms 34 by means of the links 35, turn the levers at the lower ends of the splined rods 37 whose lower ends are swiveled in the platform 13 and whose upper ends project through the plate 40 but are only free to pass when the rods are turned so that the spline comes in line with a corresponding slot 36 in the plate when the downward pressure on the funnel and plate causes the latter to descend which it freely does against the tension of the spring 41 and guided by the rods 37. The lower tube 38 of the funnel slides in the sleeve 39 which is fast in the platform 13 and the spring 41 surrounds the tube and normally elevates the funnel to the position shown in Fig. 1.

After the platform 13 descends to its lowest point and the rods 37 are turned so that the splines are alined with the radial slots 36, the frame carrying the funnel is then free to move downward with the pen and its movement is arrested when the plate 40 comes in contact with the sleeve 39. The bell crank levers 33 are normally controlled by springs 42 which press upon the arm 32, and the reservoir 7 has an inlet 43 for the introduction of a supply of ink. The ink well is again covered when the platform 13 returns to its normal position and the levers 20 are carried inward by the slots 18 so that the lid again fills the mouth of the well. The ink in this well is therefore always protected from exposure and evaporation as the well is always covered and only opened when the pen is dipped therein.

It is obvious that the various parts of the device may be altered or modified without departing from the essential features described and shown.

What I claim as new and desire to secure by Letters Patent is:

1. In an inkstand, the combination with

an ink well, of a vertically moving frame, springs beneath same, a cover for the mouth of the well, levers carrying the cover and adapted to be rocked and slid, and means connected with the frame for rocking and sliding the levers to remove the cover from the mouth of the well.

2. In an inkstand, the combination with an ink well, of a cover, a cross bar with levers at its ends, sliding fulcrums for the levers, a vertically moving frame, springs beneath same, means on the frame for tipping the levers and sliding their fulcrums, guide rods, a vertically moving receptacle for the pen normally locked by the guide rods and means below the vertically moving frame for turning the guide rods to release the receptacle.

3. In an inkstand, the combination with an inkwell, of a cover, pivoted levers carrying the cover and connected by a cross bar, a vertically moving frame with cammed slots to receive the ends of the levers, a receptacle for the pen carried by the moving frame and having an independent movement, splined guide rods for the receptacle, bell crank levers adapted to turn the rods and pins on the well to impinge the bell crank levers and cause them to turn the guide rods so that the splines will not interfere with the movement of the receptacle.

4. In an inkstand, the combination with an inkwell, of a cover, levers on sliding pivots and connected by a cross bar, a link between the cross bar and the cover, a vertically moving frame with cam slots carrying the ends of the levers to tip and slide them, springs beneath the frame, a pen receptacle normally held above the moving frame, splined rods playing in openings in and guiding the receptacle and normally holding the same in its elevated position, vertical pins on the inkwell, bell crank levers on the moving frame adapted to be operated by the pins and a lever on each splined rod and operated by one of the bell crank levers.

In testimony whereof, I affix my signature in presence of two witnesses.

HANS R. CHRISTIANS.

Witnesses:
JAMES F. DUHAMEL,
MAE W. CLINTON.