

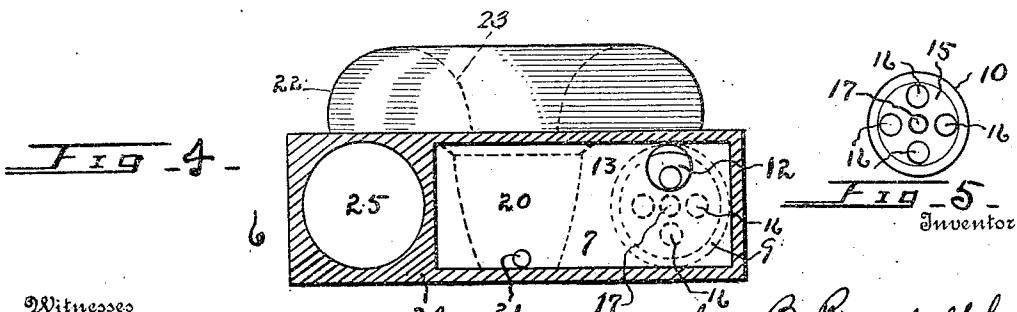
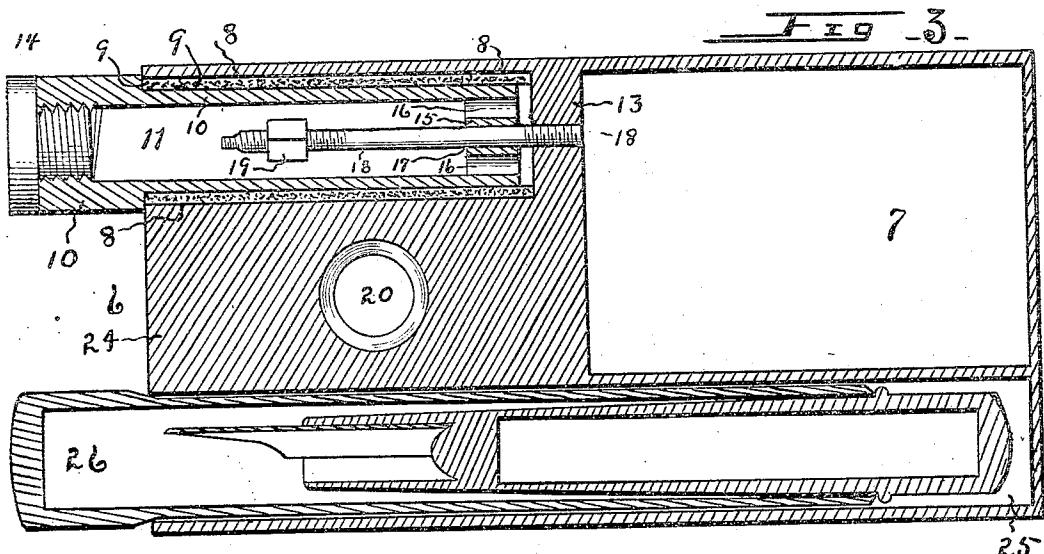
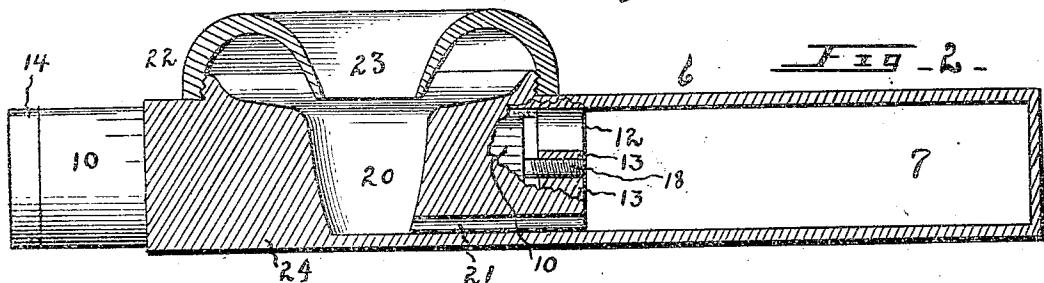
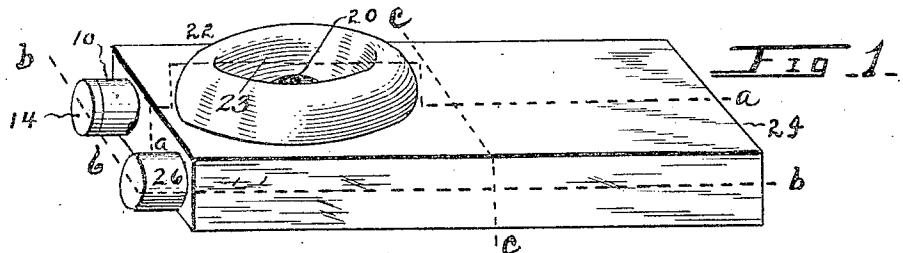
J. B. RANDOLPH.

INK WELL.

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955,432.



Witnesses

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INK-WELL.

955,432.

Specification of Letters Patent. Patented Apr. 19, 1910.

Application filed August 25, 1908, Serial No. 450,144. Renewed October 11, 1909. Serial No. 522,127.

To all whom it may concern:

Be it known that I, JEPHTHA B. RANDOLPH, a citizen of the United States, residing at Omaha, in the county of Douglas and State 5 of Nebraska, have invented certain new and useful Improvements in Ink-Wells, of which the following is a specification.

This invention relates to improvements in ink wells of the portable class.

10 The principal objects of the invention are to provide an ink receptacle which will be of suitable form for carriage in the pocket, and which will have means for conveniently moving the ink into or withdrawing it from 15 the dipping cavity.

The novel features of the invention are fully described herein, pointed out by the appended claims and illustrated in the drawing, wherein,—

20 Figure 1 is a perspective view of an ink well embodying my invention. Fig. 2 is a longitudinal, sectional view taken vertically through the middle of the ink well, as on line *a a* of Fig. 1. Fig. 3 is a longitudinal, 25 sectional view taken horizontally on line *b b* of Fig. 1, being a plan view showing the lower half of the ink well. Fig. 4 is a transverse, sectional view of the invention, taken through the ink reservoir, on line *c c* of Fig. 30 1, looking to the dipping cup. Fig. 5 is a detail relating to Figs. 2 and 4, showing the inner end of the plunger.

Referring now to the drawing for a more particular description, numeral 6 indicates 35 an ink well having an ink reservoir 7 and an annular, longitudinal opening or recess 8, preferably provided with a lining 9. A plunger is indicated at 10, and it may be formed as a sleeve or casing with the hollow 40 portion 11. As will be seen, the annular recess 8 operates as a socket for the seating and slidable movement therein of the plunger, and in operation receives a part of the contents of the ink reservoir, and there- 45 fore recess 8 is also, in the description to be made, designated as a container and socket member, this being for convenience of description.

I provide a first passage way, conduit or 50 duct 12 communicating with recess 8 by traversing the wall or partition 13 intermediate this recess and ink reservoir. The plunger has an air tight seating in contact with the lining, and may have a longitudi-

nal, sliding movement within recess 8. The 55 outer end of the plunger or casing 10 is closed by means of the removable plug 14. Its inner end is provided with the plug 15 having a plurality of apertures 16 and a central opening 17 to provide a slidable bearing for longitudinal guide 18, this guide having an end mounting upon partition 13. The free end of the guide has the adjustable stop-lug 19 thereon. I provide the dipping 60 cup or receptacle 20 disposed adjacent the ink reservoir and connected therewith by a second duct or passageway 21. The dipping cup is provided with the upwardly extending hood 22 having a transversely curved 65 wall 23 formed to overhang said dipping 70 cup.

The devices as described are contained in a block or housing 24 of any suitable material, and is preferably formed as an oblong body, rectangular in cross-section to provide 75 an adequate containing capacity for the ink reservoir, and is a preferred article for reporters and others since it has a limited altitude when operatively seated and has a convenient form for pocket carriage. As a matter 80 of convenience I provide the longitudinal opening 25, in the housing, adapted to contain a pen holder 26. Reservoir 7 may be 85 filled by passing the ink through casing 10, first removing the screw-plug 14, and while the operation is simple for forcing the ink within or withdrawing it from the dipping receptacle, an explanation thereof will now be made.

The parts being in the position shown in 90 Figs. 1 or 3, to force the ink into the dipping cup, the operator moves the plunger outwardly, which causes a part of the contents of the ink reservoir to pass within casing 10 and recess 8, air at this time entering 95 the ink reservoir by passing duct 21. The plunger or casing 10 is then moved inwardly, which forces ink into the dipping cup, and the device is then ready for use.

For withdrawing the ink from the dipping cup, the operator draws casing 10 outwardly, which causes the ink in the dipping cup to pass into the ink reservoir. He then 100 partly inverts the device by placing it in an upright position, the ink reservoir being at 105 the bottom, so that ink in the ink reservoir will, by gravity, fall away from duct 21.

He then slides casing 10 inwardly, and

thereafter the device may be inverted or placed in any position and the ink will remain in the ink reservoir.

The containing capacity of recess 8 and casing 10 is adjusted by means of the threaded connection of stop-lug 19 with guide 18. As is apparent, plug 15, when casing 10 is moved outwardly, may make contact with lug 19, and if the latter is adjusted to 10 a position nearer partition 13, the outward sliding movement of the casing will be less, and a less amount of the contents of the ink reservoir will be drawn into the recess or container. The object of making this adjustment is to control the quantity of ink in 15 the dipping cup, since some pens may be shorter than others, and certain users desire to have only a limited supply of ink therein.

It will be noted that the operation for filling or evacuating the dipping cup will be the same whether the contents of the ink reservoir is composed partly of air or wholly of ink.

It would appear that, since air is contained in the hollow portion 11 of the casing at the time said casing is first inserted, that any part of the contents of reservoir 7 would not enter therein, but it will be noted that guide 18 at times, occupies a greater 30 space within casing 10 than at others, and from and on account of suction, when casing 10 has its lengthwise movement, a part of the contents of reservoir 7 passes within or is forced from the interior of the casing.

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

1. An ink well comprising a housing with a longitudinal recess, a dipping cavity and 40 an ink reservoir formed therein, said housing having a partition intermediate the ink reservoir and longitudinal recess traversed by a conduit and formed with a second conduit communicating between the reservoir and dipping cavity; a casing seated in the longitudinal recess and having a closed outer end and an apertured inner end, a longitudinal guide within and traversing the aperture of said casing for a mounting of one 45 of its ends upon said partition; said casing adapted to have an outward slidable movement for causing a part of the contents of the ink reservoir to pass within the casing and longitudinal recess.

2. In an ink well, the combination with a housing formed rectangular in cross section and provided with an ink reservoir therein, a longitudinal recess opening upon one of its ends and a dipping cavity opening upon 60 one of its sides, said housing having a partition intermediate the ink reservoir and longitudinal recess traversed by a conduit and formed with a second conduit communicating between the reservoir and dipping cavity, of a casing seated in the longitudinal

recess and having a closed outer end and an apertured inner end; a longitudinal guide within and traversing the aperture of said casing for a mounting of one of its ends upon said partition; said casing adapted to have an outward slidable movement for causing a part of the contents of the ink reservoir to pass within the casing and longitudinal recess.

3. An ink well comprising a housing with a longitudinal recess, a dipping cavity and an ink reservoir formed therein, said housing having a partition intermediate the ink reservoir and longitudinal recess traversed by a conduit and formed with a second conduit communicating between the reservoir and dipping cavity; a casing seated in the longitudinal recess and provided with a removable closure upon its outer end and an apertured inner end; a longitudinal guide having a stop-lug thereon, said guide seated within and traversing the aperture of said casing for a mounting of one of its ends upon said partition; said casing adapted to have an outward slidable movement for causing a part of the contents of the ink reservoir to pass within the casing and longitudinal recess; means to make a longitudinal adjustment of said stop-lug upon said guide.

4. In an ink well, the combination with a housing formed rectangular in cross section to provide an ink reservoir therein, and a longitudinal recess opening upon one of its ends, and formed with a dipping cup opening upon one of its sides with a hood projecting outwardly to overhang said dipping cup; said housing having a partition intermediate the ink reservoir and longitudinal recess traversed by a conduit and formed with a second conduit communicating between the reservoir and dipping cup; of a casing seated in the longitudinal recess and provided with a removable closure upon its outer end and with an apertured inner end; a longitudinal guide having a longitudinally adjustable stop-lug thereon, said guide seated within and traversing the aperture of said casing for a mounting of one of its ends upon said partition; said casing adapted to have an inward sliding movement for causing a part of its contents to traverse the conduit formed in said partition and for causing a part of the contents of the ink receptacle to traverse said second conduit.

5. An ink well, comprising a housing with a longitudinal recess, a dipping cavity and an ink reservoir formed therein, said housing having a partition intermediate the ink reservoir and longitudinal recess traversed by a conduit and formed with a second conduit communicating between the reservoir and dipping cavity; an elongated casing seated in the longitudinal recess and having

a closed outer end and an apertured inner end, a longitudinal guide within and traversing the aperture of said casing for a mounting of one of its ends upon said partition; the elongated casing adapted to have an inward slideable movement for causing a part of its contents to traverse the conduit formed in said partition and to cause a part

of the contents of the ink reservoir to traverse the second conduit. 10

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

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Witnesses:

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