

No. 878,372.

PATENTED FEB. 4, 1908.

A. GAILEY.  
INK WELL.

APPLICATION FILED MAR. 12, 1907.

Fig. 1.

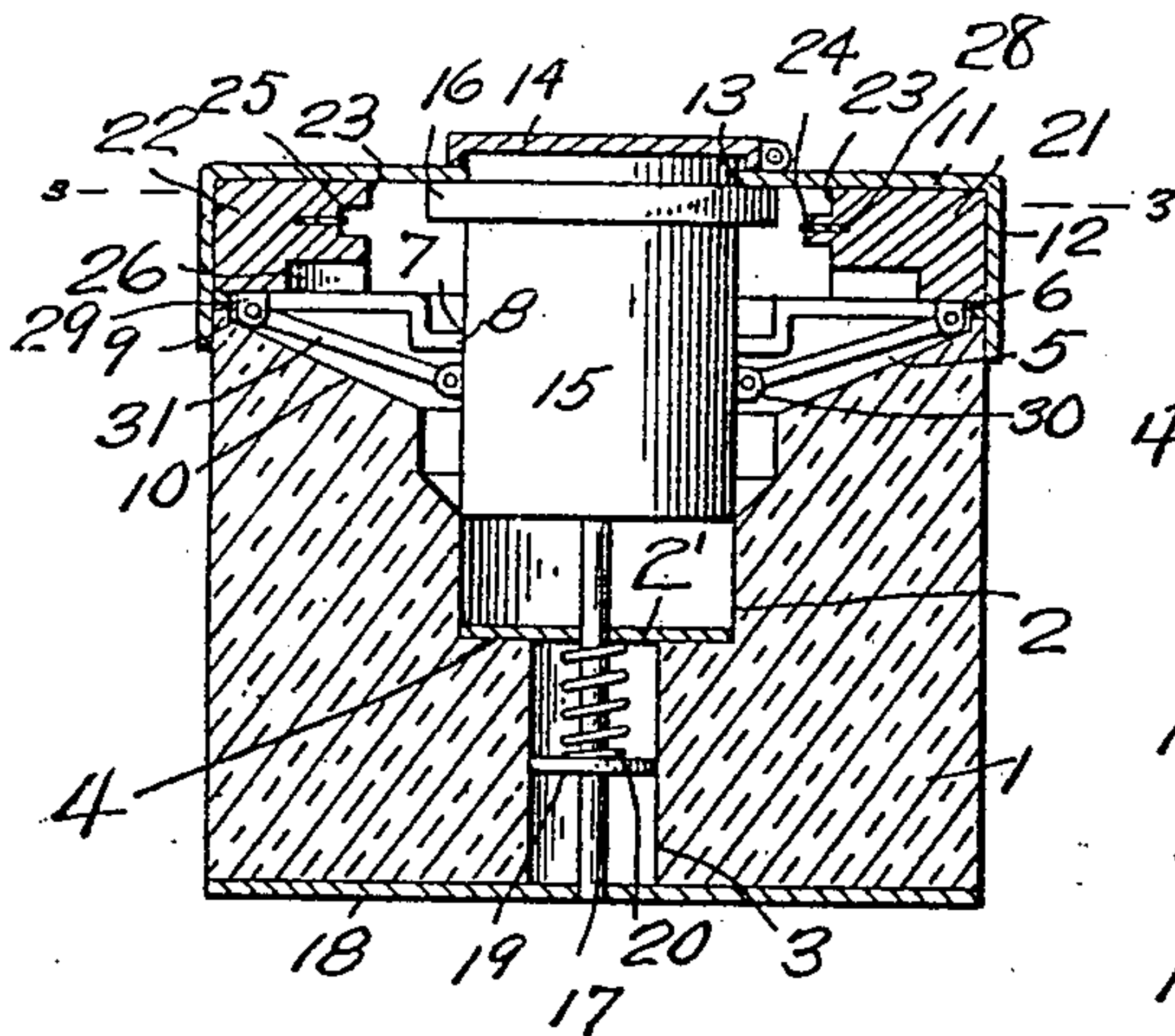


Fig. 2.

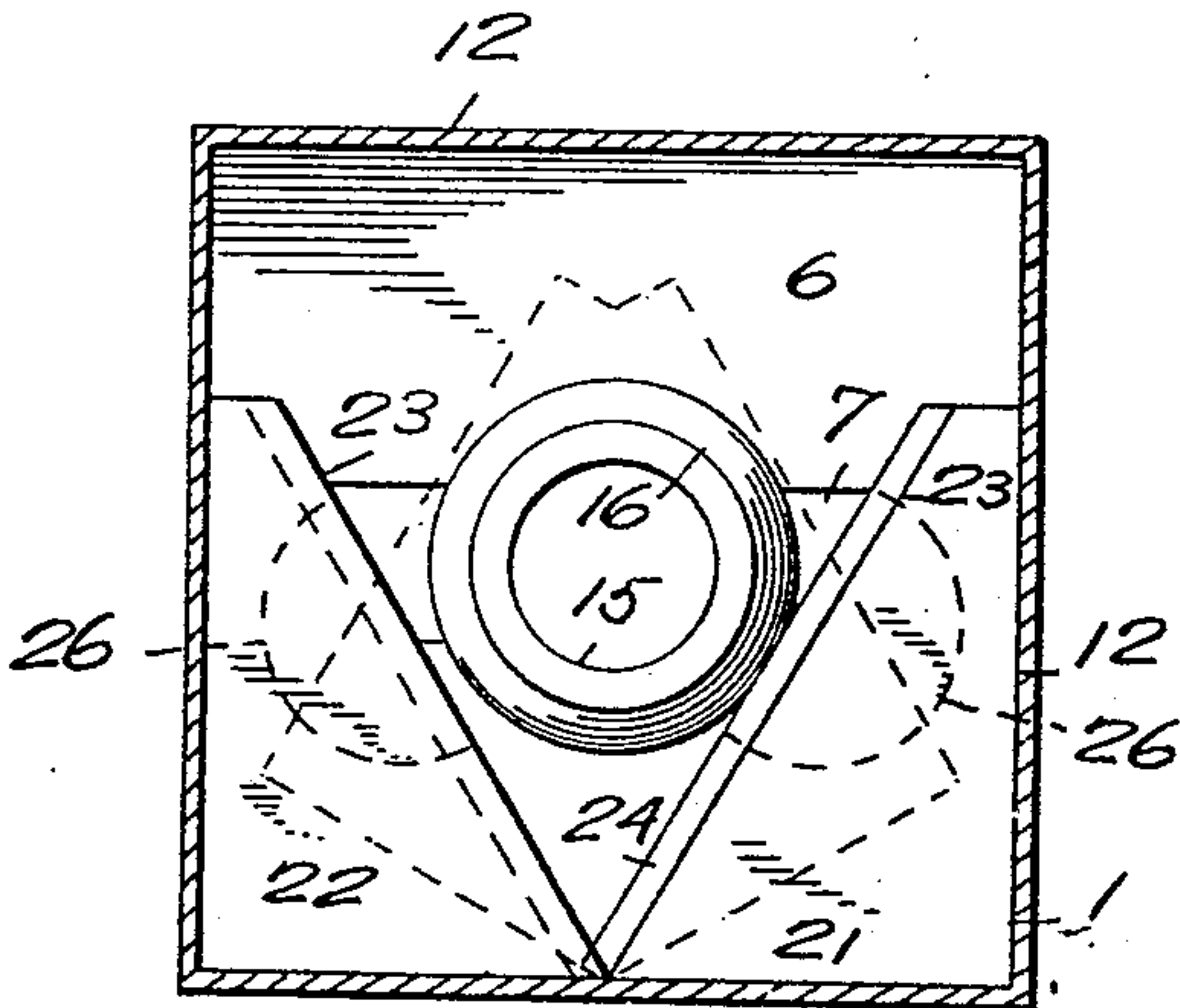
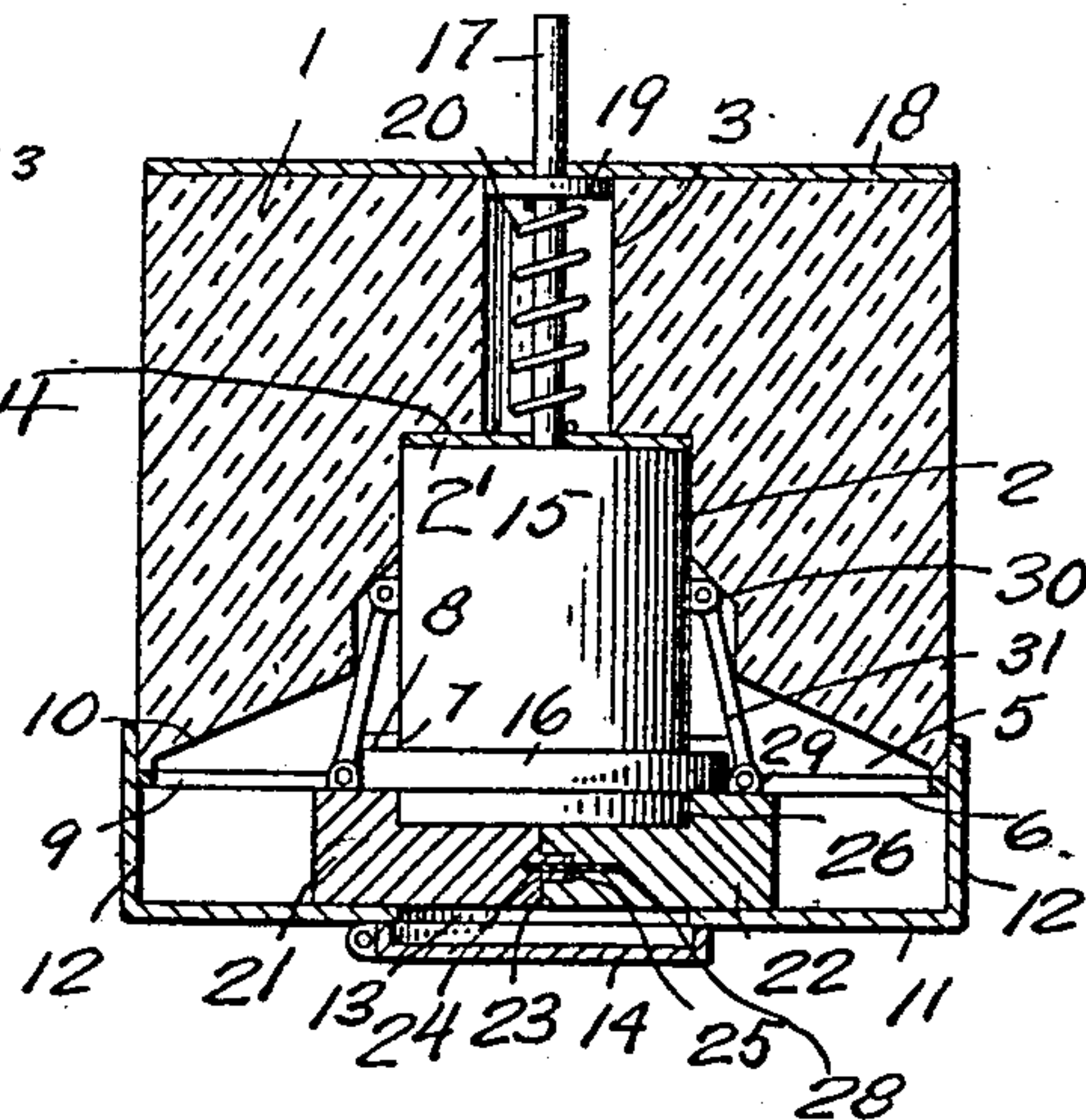
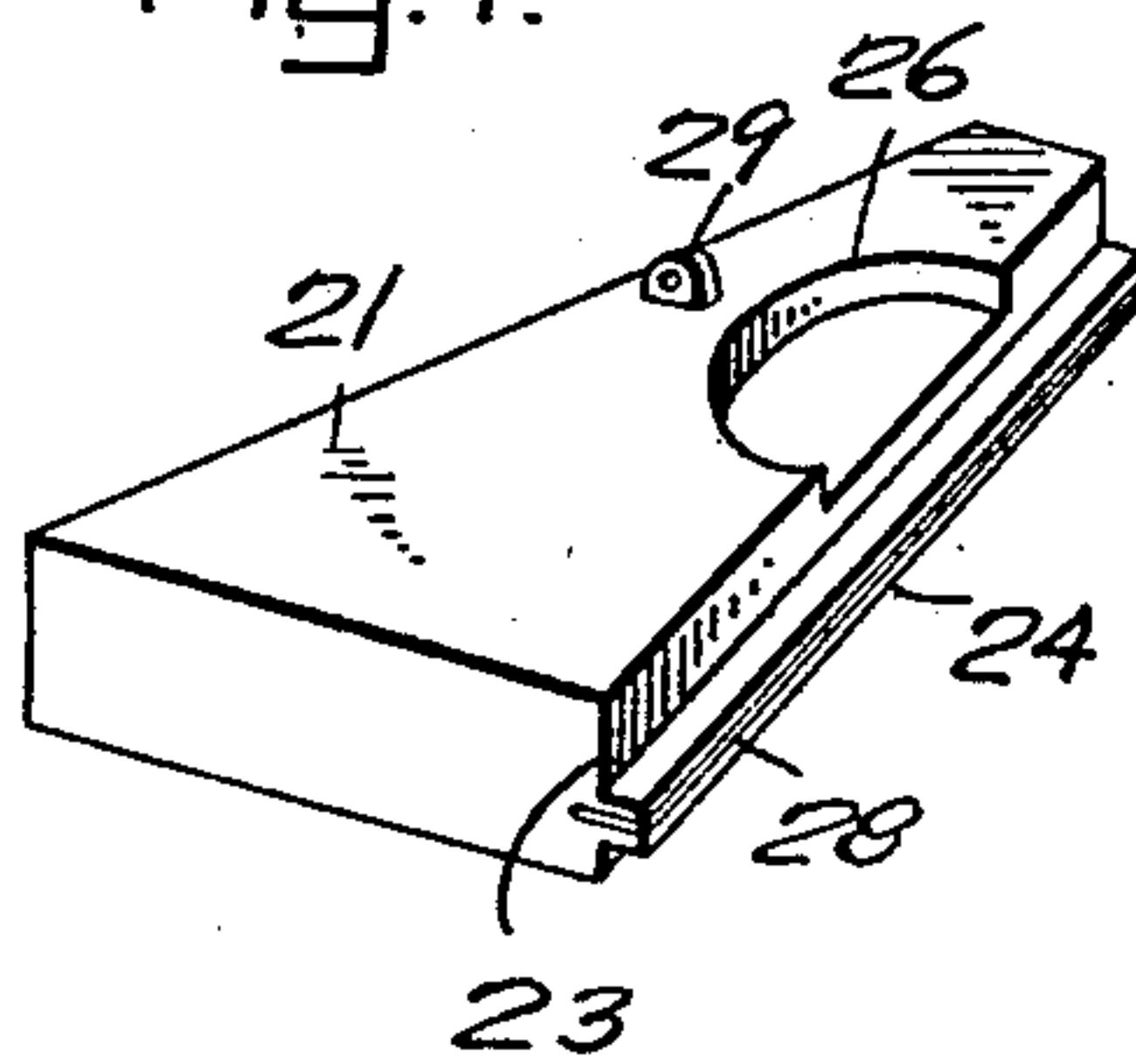


Fig. 3.

Fig. 4.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## INK-WELL.

No. 878,372.

Specification of Letters Patent.

Patented Feb. 4, 1908.

Application filed March 12, 1907. Serial No. 361,947.

*To all whom it may concern:*

Be it known that I, ANDREW GAILEY, a citizen of the United States, residing at Williamsburg, in the county of Blair, State of Pennsylvania, have invented certain new and useful Improvements in Ink-Wells; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in ink-wells, and it has particular reference to an ink-well of the non-spillable type.

In connection with an ink-well of the above type, the invention aims as a primary object to provide a novel means for closing the opening thereof, should the ink-well be tilted or overturned.

The invention aims as a further object to provide a novel construction, combination, and arrangement of parts, the details of which will appear in the course of the following description, in which reference is had to the accompanying drawings forming a part of this specification, like characters of reference designating similar parts throughout the several views, wherein,

Figure 1 is a central vertical section of an ink-well constructed in accordance with my invention. Fig. 2 is a similar view showing the parts in the position which they assume when the ink-well is tilted or overturned. Fig. 3 is a section on the line 3—3 of Fig. 1, and Fig. 4 represents in rear perspective, one of the relatively movable automatically-operated plates for closing the openings of the ink-well shown in Fig. 3.

Referring specifically to the accompanying drawings, the numeral 1 designates the body portion of the ink-well, preferably of glass or ornamental vitreous material, and having an axial opening therethrough, which, on one side of a line approximately central of said body portion, is of enlarged diameter, as at 2, and on the other side of said line is of reduced diameter, as at 3, a shoulder 4 being afforded at the junction of the enlarged and reduced concentric communicating openings 2 and 3, and serving to support a plate 2' spanning said openings. The body portion 1 has its top face recessed, as at 5, on opposite sides of the openings 3, and a plate 6 is imposed upon the top face of said body portion and preferably fixed by a

cement binding agent, the plate 6 being of material similar to the material of the body portion 1, and having a central opening 7 coextensive with the opening 2 and communicating therewith, the opening 7 being concentrically cut into a central recessed portion of said plate, so that an annular shoulder 8 is afforded. The plate 6 likewise has recesses 9 extending from the opening 7 on each side thereof and communicating with the recesses 5, the latter having inclined bottom walls 10. Surrounding the top portion of the ink-well is a plate 11, of any desired rigid material, which is spaced away from the upper surface of the plate 6 in parallelism thereto, and which has angular sides 12 overlying the sides of the plate 6, and secured to the sides of the body portion 1. The plate 11 is formed with a central opening 13, normally closed by a hinged cap 14.

Within the opening 2 is an ink-well 15, which comprises a cylindrical body portion adapted for free sliding movement, and having adjacent its upper edge a circum-scribing flange 16, which is designed, when the ink-well is tilted, or overturned, to engage the shoulder 8 as a stop. The ink-well 15 carries a downwardly extending shank 17, projected axially through the plate 2', the opening 3 and through an opening provided therefor in a bottom plate 18, of suitable rigid material, and fixed to the bottom of the body portion 1, preferably by a cement binding agent. The shank 17 projects a distance beyond said body portion when the ink-well is overturned, as is shown in Fig. 2, but when the ink-well is in its proper position, is flush therewith, as shown in Fig. 1. Within the opening 3 the shank 17 carries, adjacent its free end, a head or pin 19, between which and the plate 2' an expansive coil-spring 20 is interposed.

As previously stated, the top plate 11 is spaced away from the plate 6, and in the chamber thus afforded plates 21 and 22 for automatically closing the opening of the well 15, are mounted. The plates 21 and 22 have their outer side edges disposed at substantial right angles, and bearing against the adjacent sides 12 of the plate 11, said sides 12 thus constituting seats for the plates 21 and 22 in the normal disposition of the parts. The adjacent edges 23 of the plates 21 and 22 are inclined, and have a convergent relation. One of the edges 23 has a longitudinal rib 24, and the other edge 23 has a longitudinal



groove 25, within which the rib 24 is designed to partially or wholly interfit, in accordance with the position of the ink-well. Plates 21 and 22, on their inner faces, are formed with 5 semicircular recesses 26. Rubber strips 28 are embedded in the edges 23 and contact with one another when the plates are closed to effect a sealed joint against the escape of ink.

10 The plates 21 and 22 are provided, on their rear faces, with apertured ears 29, projecting slightly into the recesses 9, respectively adjacent thereto. The ink-well 15 is provided with ears 30 on opposite sides thereof, 15 and links 31 are pivoted at their ends to the respective ears 29 and 30.

The manner of use will be readily apparent from the foregoing description. In the position of Fig. 1, it will be noted that the well 20 15 is disposed with its front portion between the plates 21 and 22, and with its upper edge adjacent the cap 14. Assuming that the ink-well, as an entirety, is overturned, the spring 20 acts upon the head or pin 19 and moves 25 the shank 17 and ink-well 15 until the bottom of said ink-well engages the shoulder 4 as a stop, and the flange 16 in like manner engages the shoulder 8. In the rearward or downward movement of the ink-well 15, the 30 plates 21 and 22 are moved towards one another by means of the links 31, assembled in the manner above described. The movement of the plates 21 and 22 towards one another is substantially pivotal, and in this 35 movement the inner ends of the edges 23 constitute fulcrums, and bear upon the adjacent side 12, as will be readily understood. The plates 21 and 22 have movement until their edges 23 abut one another, at which 40 time said plates will entirely close the ink-well 15, the front portion of said ink-well being received in the recesses 26. It will thus be seen that the instant the ink-well is overturned, the plates 21 and 22 are automatically and simultaneously moved together, to close the opening. When the ink-well is restored to its proper position, the desk or table upon which it rests, forces the shank 17 upwardly against the tension of the 50 spring 20, and the ink-well 15, and the plates 21 and 22 are restored to the position of Fig. 1 through the connections described.

From the foregoing description, it will be seen that simple and efficient means are provided for accomplishing the objects of the 55 invention, but while the elements herein shown and described are well adapted to serve the functions set forth; it is obvious that various minor changes may be made in the proportions, shape, and arrangement of 60 the several parts, without departing from the spirit and scope of the invention, as defined in the appended claims.

What is claimed, is—

1. An ink-well of the class described, comprising a body portion having communicating enlarged and reduced central openings extending therethrough, a retaining plate fixed to said body portion and spaced away therefrom, a cylindrical ink-well body in said 70 enlarged openings and having a shank projected through said reduced openings, a pin on said shank, a coil-spring interposed between said pin and said cylindrical body, said body portion having recesses on each side 75 of said enlarged openings, triangular shaped plates supported between said body portion and said retaining plate, the adjacent inner corners of said triangular shaped plates constituting fulcrums therefor, and links disposed within said recesses, and having pivotal 80 connection with said cylindrical body on each side thereof and with said triangular shaped plates.

2. In an ink-well, a body portion having 85 central communicating enlarged and reduced openings, a cylindrical ink-well body in said enlarged opening said body having an open end and having a shank in said reduced opening, a spring engaging said shank, to 90 force the same downwardly, plates supported above said body portion and designed for movement toward one another, to close the open end of said cylindrical body, said body portion having recesses on each side of said 95 body and connections between said body and said plates and disposed within said recesses.

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

ANDREW GAILEY.

Witnesses:

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