

No. 661,737.

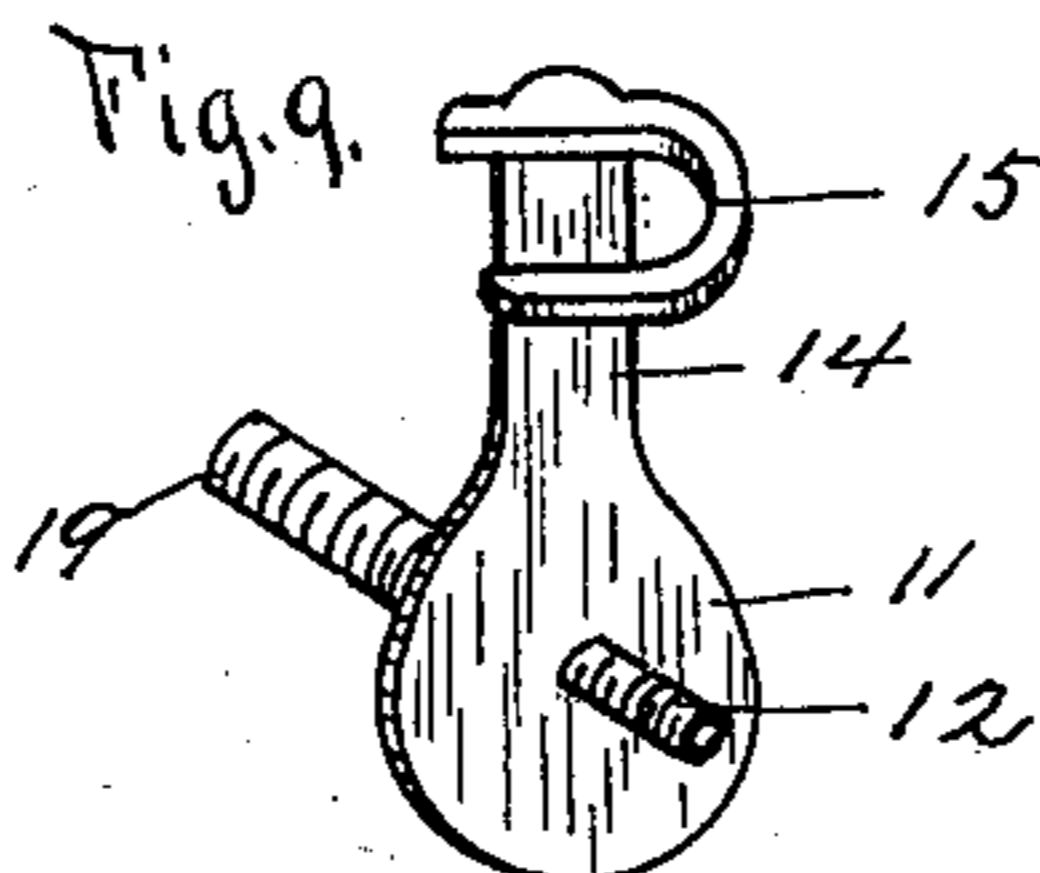
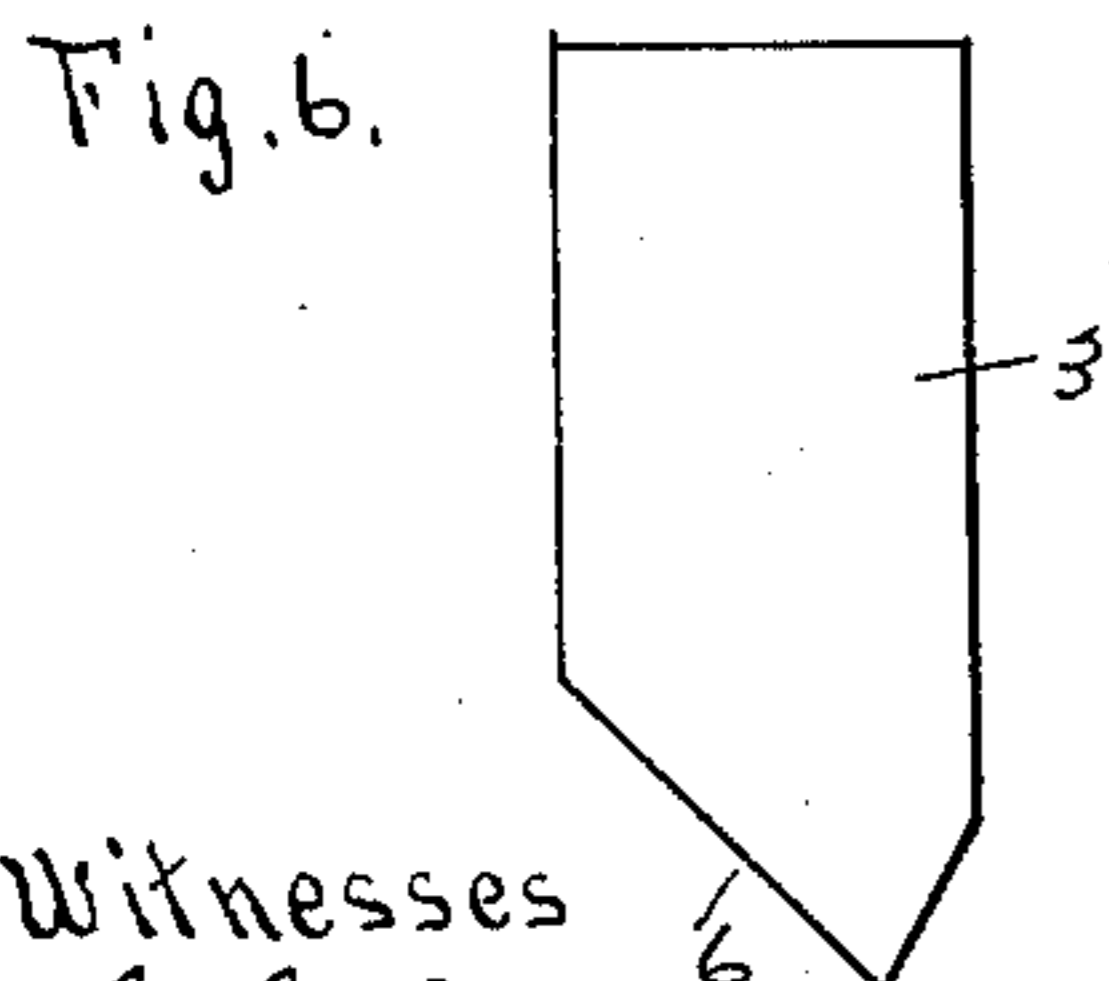
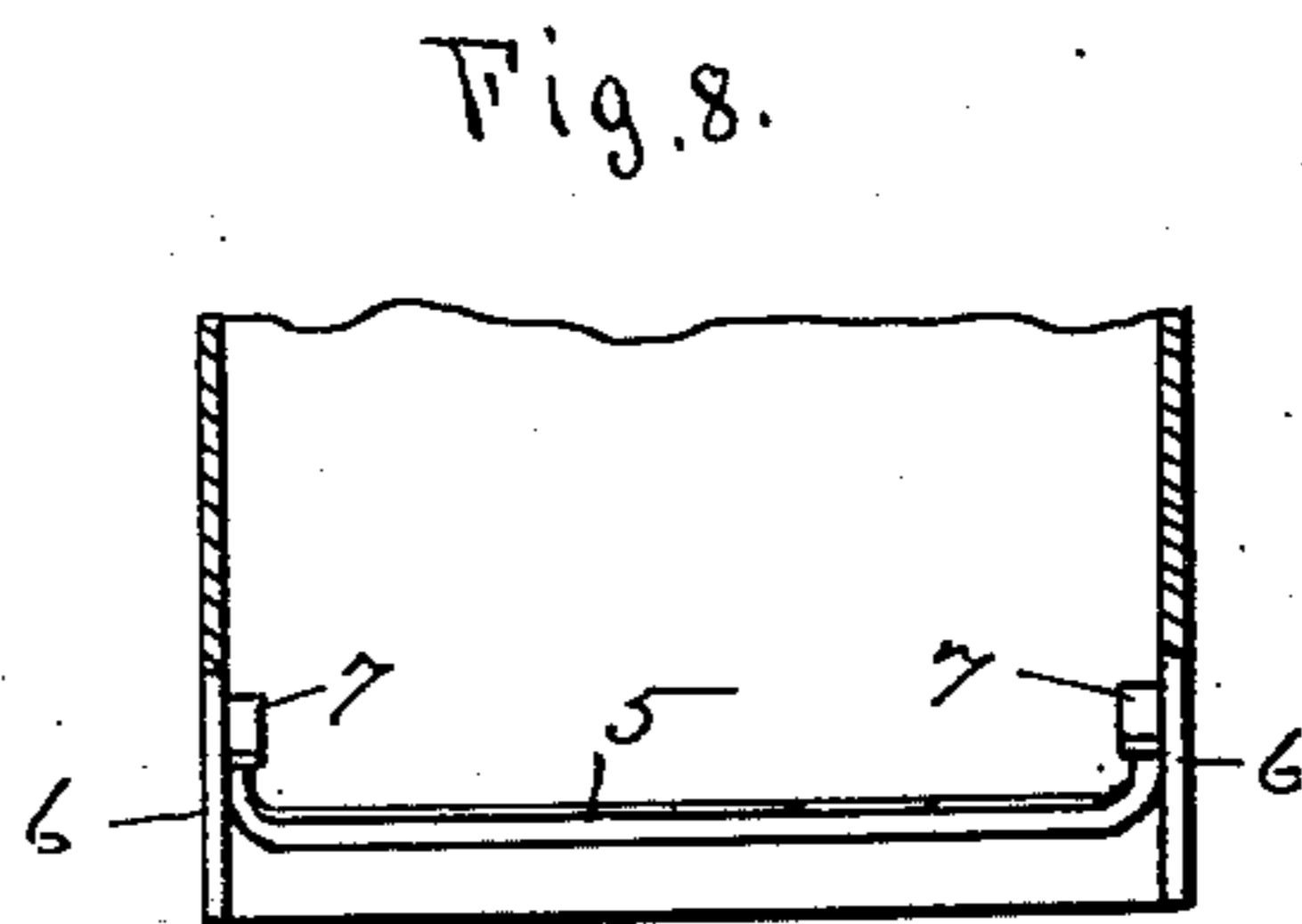
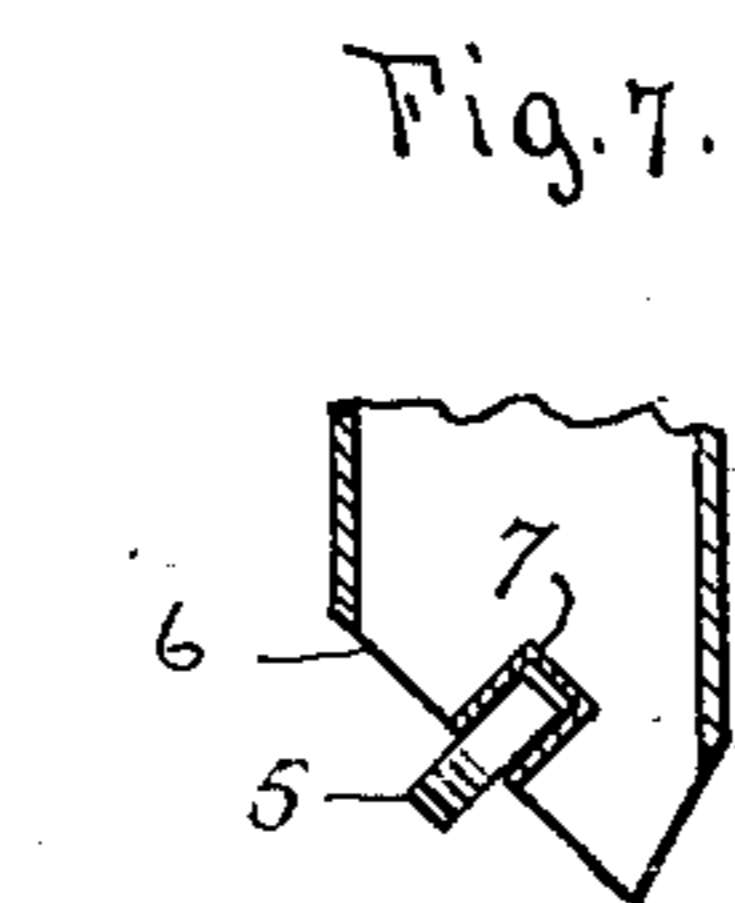
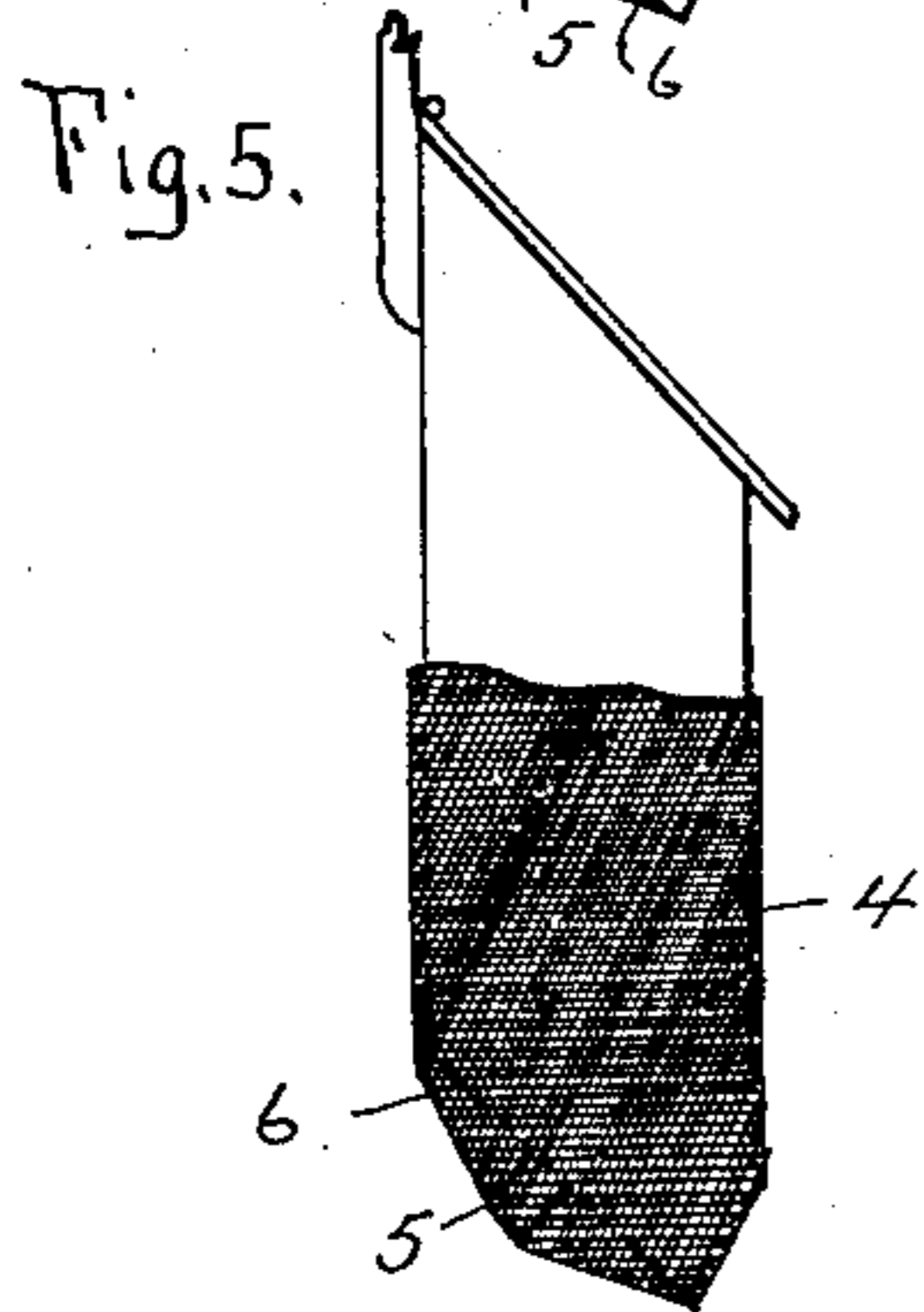
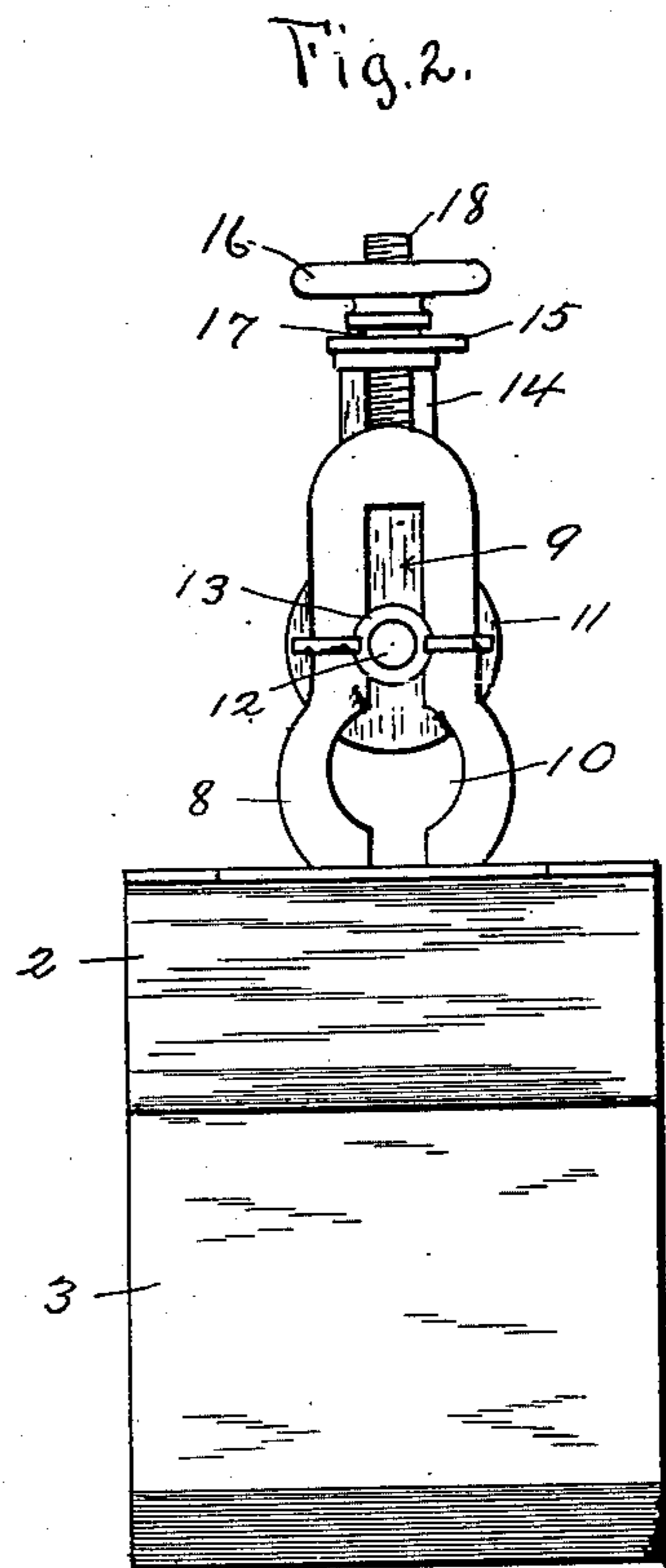
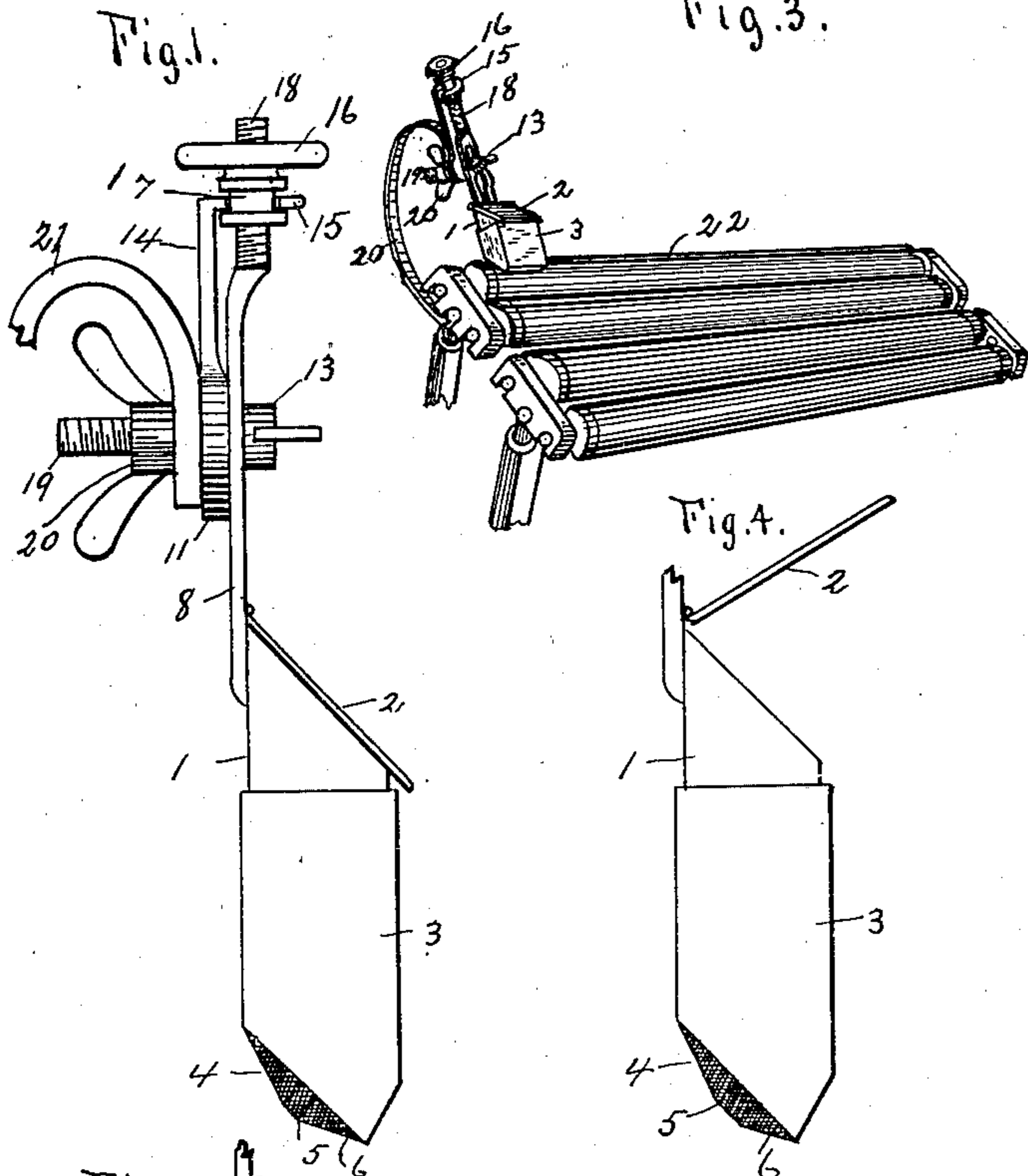
Patented Nov. 13, 1900.

J. S. GOHEEN.

AUTOMATIC INK FOUNTAIN FOR PRINTING PRESSES.

(Application filed Jan. 3, 1899.)

(No Model.)



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UNITED STATES PATENT OFFICE.

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AUTOMATIC INK-FOUNTAIN FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 661,737, dated November 13, 1900.

Application filed January 3, 1899. Serial No. 700,952. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH S. GOHEEN, a citizen of the United States of America, residing at Wichita, in the county of Sedgwick and State of Kansas, have invented certain new and useful Improvements in Automatic Ink-Fountains for Printing-Presses, of which the following is a specification, reference being had therein to the accompanying drawings and the figures of reference thereon, forming a part of this specification, in which—

Figure 1 is an edge view of my improved automatic ink-fountain for printing-presses. Fig. 2 is a front view of the same. Fig. 3 is a perspective view of the rollers of a printing-press with my automatic ink-fountain attached thereto. Fig. 4 is an edge detail view showing the lid of the ink-receptacle open. Fig. 5 is a like view showing the fabric on the bottom of said receptacle. Fig. 6 is an edge view of the cap for holding said fabric in place. Fig. 7 is a sectional view showing in section the pocket for holding the spring. Fig. 8 is a like view showing the spring which is for holding the cloth 4 yieldingly tight. Fig. 9 is a detail perspective view of a portion of the adjusting device.

This invention relates to certain improvements in automatic ink-fountains; and it consists in the construction and operation of the same; and the object of my invention is to produce an automatic ink-fountain for printing-presses that will be durable, simple, and cheap.

Referring to the drawings, 1 represents the ink-receptacle. 2 represents a lid hinged to said receptacle. 3 represents a shield for holding the cloth or fabric 4 over the open end 6 of said receptacle, the shield being also open at the lower end. Said open end is beveled at about the angle shown and is adapted to fit on the rollers when standing at an angle of about forty-five degrees.

7 represents pockets secured to the inside of the receptacle at the bottom for removably holding the spring 5 in position.

8 represents a support secured to the receptacle 1 for adjustably securing said ink-fountain to the printing-press, said support

being provided with the slot 9, which is enlarged at its lower end 10.

11 represents an adjusting-plate, which is provided with the threaded bolt 12 for receiving the thumb-screw 13. 14 represents an arm extending out from said plate having the notched end 15. 16 represents a thumb-screw which is provided with the collar 17, over which said notched end 15 fits. 18 represents the threaded end of the arm 8. 19 represents a threaded bolt secured to the rear side of said plate 11. 20 represents a thumb-screw on said bolt. 21 represents a yielding arm for securing said ink-fountain to the printing-press through the medium of said bolt 19 and thumb-screw 20.

22 represents the ink-rollers of a printing-press.

This automatic ink-fountain is used in the following manner: The yielding arm 21 is secured at one end to the printing-press and is made the proper shape to hold said fountain on the roller, as shown in Fig. 3, at about an angle of forty-five degrees. The bolt 19 is passed through a hole in said arm 21. The thumb-screw 20 is then tightened. By loosening the thumb-screw 13 the ink-fountain can then be placed so that the lower end 6 will just clear the ink-rollers 22 when said rollers are at their highest point, said adjustment being made through the medium of the thumb-screw 16 and the arm 14. After said adjustment is made the thumb-screw 13 is tightened, thus holding said ink-fountain in the desired position. The fountain-receptacle is filled with ink by raising the lid 2, as shown in Fig. 4. The cloth or other suitable fabric is of the proper mesh to hold said ink in said receptacle. When the rollers 22 come into contact with the fountain, they compress the spring 5 upward, thereby relieving the cloth or fabric 4 of the pressure exerted by said spring, thus permitting the fabric to hang loose, whereby the ink will flow or ooze comparatively freely through the same onto the rollers. When the spring 5 is fully extended to its normal bowed position, the fabric, as will be readily understood, is tightly stretched thereby, thus more or less closing

the mesh of the fabric to such an extent that the ink cannot pass through the same.

When it is desirable to clean the ink-fountain, the thumb-screw 13 is loosened and the slotted arm 14 removed from the collar 17 of the thumb-screw 16. The fountain 1 is then raised so that the thumb-screw 13 will pass through the enlarged opening 10, thus removing said fountain from the printing-press. The shield 3 is then removed from the receptacle 1 and the fabric removed. The ends of the spring 5 are then removed from the pockets 7, when said receptacle and spring can be cleaned. After said receptacle has been cleaned and the spring replaced a new fabric is placed over the lower open end of said receptacle, as shown in Fig. 5, and the shield replaced, thus tightening said fabric and holding it in place, after which said fountain can be replaced on the machine.

Having thus described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is as follows:

1. An automatic ink-fountain consisting of a receptacle having a fabric bottom, a spring for yieldingly holding said fabric bottom tight, and an arm for adjustably holding said ink-receptacle on a printing-press.

2. An automatic ink-fountain in combination with a printing-press, consisting of an ink-receptacle, a fabric bottom removably secured to the bottom of said receptacle, an adjustable arm secured to said receptacle, and a yielding arm connecting said receptacle and printing-press.

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