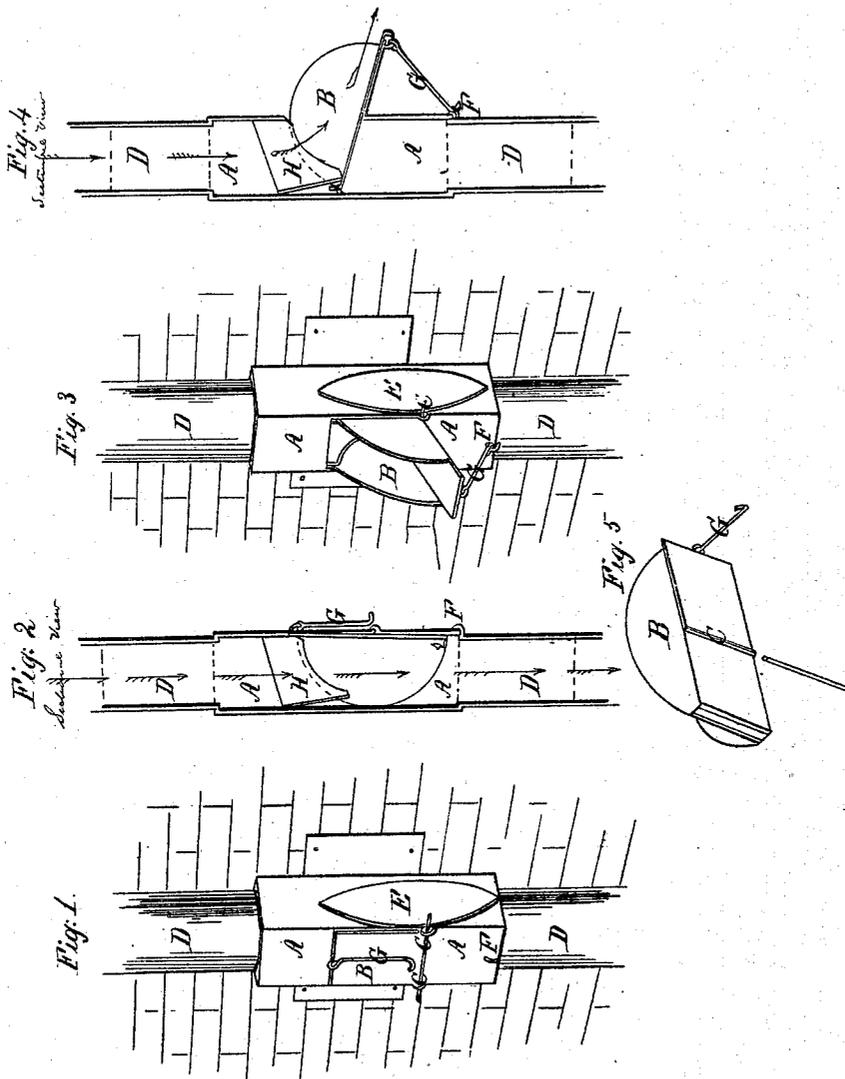


Hicks & Welker,
Cut-off for Cistern Leaders,
No. 60,005, *Patented Nov. 27, 1866.*



Witnesses
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IMPROVEMENT IN CUT-OFF FOR CISTERN LEADERS.

W. M. HICKS AND F. WELCKER, OF ST. LOUIS, MISSOURI.

Letters Patent No. 60,005, dated November 27, 1866.

SPECIFICATION.

Be it known that we, W. M. HICKS and FERDINAND WELCKER, of the city and county of St. Louis, State of Missouri, have invented a new and improved mode of constructing Leaders for Cisterns; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 representing the leader when closed.

Figure 2, vertical section of same.

Figure 3, the leader when opened.

Figure 4, vertical section of same.

Figure 5, section of the spout B.

The nature of our invention consists in the insertion into the common leader pipe, as used almost at every building, of a square box, A, provided with an adjustable spout, B, which turns around a hinge, C, and by whose means the water running from a roof, &c., of a building, towards a cistern or other receptacle of rain-water, can be turned to run off, or may be directed to flow into the cistern.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and operation. We construct a square box, A, from tin or any other material, to be inserted in leader pipe D D, and open at the upper and lower ends, and provided on the sides with braces, E, for the purpose of increasing its strength. To this box we construct an adjustable spout, B, which turns around a hinge, C, and can be removed for the purpose of cleaning by taking out the turning rod. Our spout, B, is provided at the back end with a flange, T, which when opened presses against the lower end of an extra leader, H, provided inside of the box A, so excluding the possibility of any water running into the cistern as long as the spout B is kept open. For the purpose of keeping said spout B in an open position as long as desired, we provide it with a hook, G, which, when spout B is opened, is fastened to an eye, F. As long as it is desirable to keep the cistern closed, to prevent dust or suds from falling into it, or to prevent the running in of dirty water, which in the commencement of a rain always washes off the dust and other impurity from the roofs, we leave our spout B open, and fastened by hook G to eye F. But as soon as the roof is sufficiently cleaned, we unhook the same and shut box A, by turning up spout B, whereupon all the water is bound to run to the cistern.

We claim as our invention, and wish to secure by Letters Patent—

The arrangements herein described for a cut-off for cistern leaders, consisting of a chamber A, and a revolving and adjustable door B, set in the side thereof; said door being hinged in the middle, and when turned down itself serving as a spout, for the purpose and in the manner as described.

WILLIAM M. HICKS,
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Witnesses:

C. C. HARTMAN,
LOUIS REINKEN.