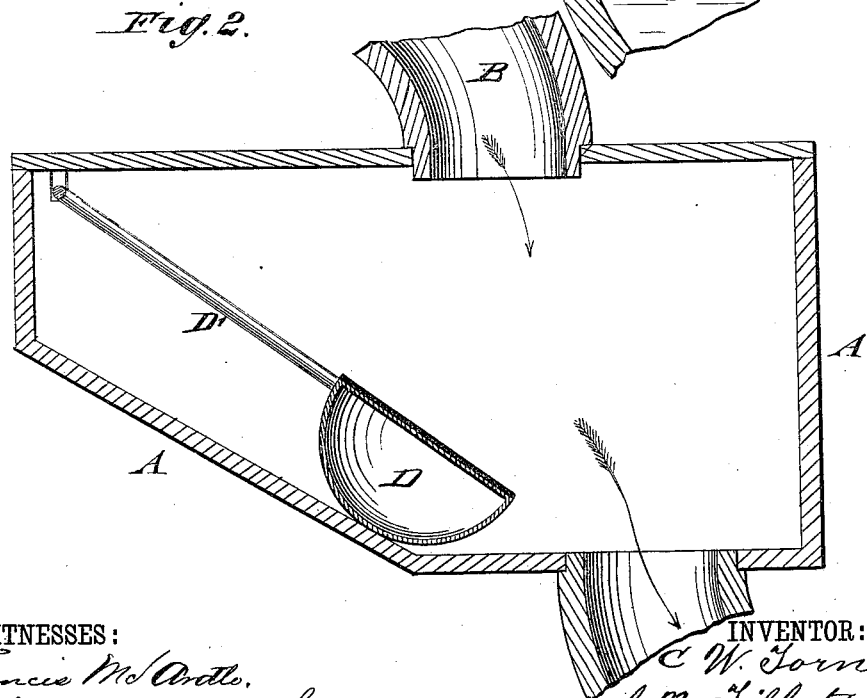
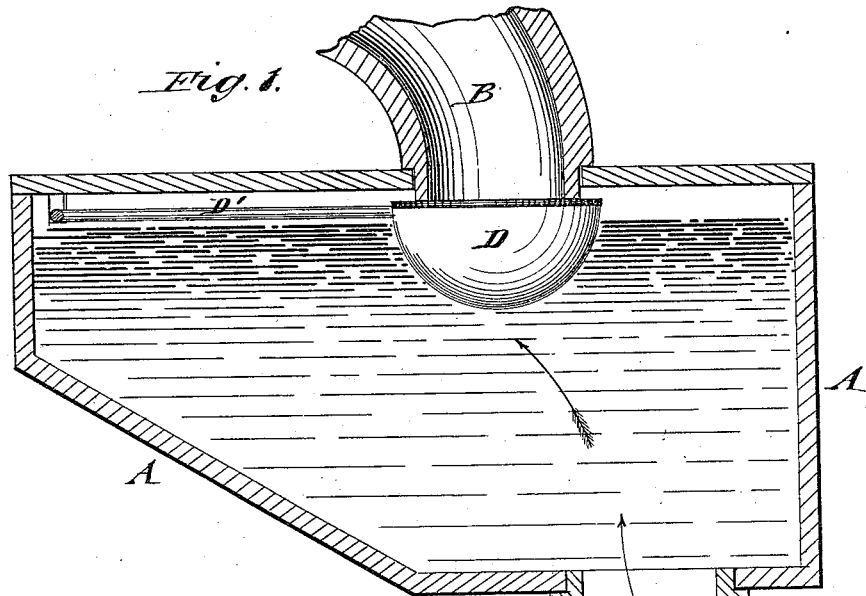


W. TORNEY & C. N. TILLOTSON.  
Sewer-Traps.

No. 199,238.

Patented Jan. 15, 1878.



WITNESSES:  
*Francis McArdle.*  
*J. H. Scarborough.*

INVENTOR:  
*C. W. Torney.*  
*C. N. Tillotson.*  
BY *Mumford*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

WELLINGTON TORNEY AND CHARLES N. TILLOTSON, OF DETROIT, MICHIGAN.

## IMPROVEMENT IN SEWER-TRAPS.

Specification forming part of Letters Patent No. **199,238**, dated January 15, 1878; application filed November 30, 1877.

*To all whom it may concern:*

Be it known that we, WELLINGTON TORNEY and CHARLES N. TILLOTSON, of Detroit, in the county of Wayne and State of Michigan, have invented a new and Improved Sewer-Trap, of which the following is a specification:

In the accompanying drawing, Figures 1 and 2 represent both vertical and longitudinal sections of our improved automatic sewer-trap, showing the same, respectively, in closed position, to prevent the flooding of cellars or basements by backwater from the sewer, and in open position.

Similar letters of reference indicate corresponding parts.

This invention has reference to an improved automatic sewer-trap by which the flooding of cellars by the backwater of sewers or tide-water may be prevented in reliable manner; and the invention consists of a trap connected to drain-pipe and sewer-pipe, and having an interior swinging float-valve, that closes the drain-pipe when backwater enters the trap.

In the drawing, A represents a trap, which is made of iron, cement, or other suitable material, and B and C the elbows that connect the trap, respectively, with the drain-pipe and sewer-pipe.

A float-valve, D, of hemispherical shape, is hinged by its arm D' to interior top bearings and a pivot-pin of the trap, so as to close the mouth of the drain-pipe B when swung up, and rest on the inclined bottom of the trap when open, as shown, respectively, in Figs. 1

and 2. The flat face of the swinging valve D is lined with rubber or other packing material, so as to close tightly on the inwardly-projecting edge of the elbow B when the valve is raised. When the valve is in lowered or open position the water passes readily from the cellar, through the trap and the lower pipe E, to the sewer, while the valve, as soon as backwater enters into the trap, is lifted and carried up against the pipe B, so that the backwater cannot pass into the same, and is prevented from gaining admission to and flooding the cellar. As the backwater recedes the valve returns to the bottom of trap. The automatic closing of the valve prevents the backwater from sewer or privy vaults from overflowing cellars and basements in effective and reliable manner.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The combination, with a trap-chamber connecting with drain and sewer pipes, substantially as shown and described, of the valve D, provided with packing upon its working-face, and a rigid arm or rod, D', the latter pivoted at its end to the horizontal upper surface of said chamber A, to cause the valve to rise with the backwater and close the drain-pipe, as set forth.

WELLINGTON TORNEY.  
CHARLES N. TILLOTSON.

Witnesses:

HENRY A. HARMON,  
D. M. HORDEN.