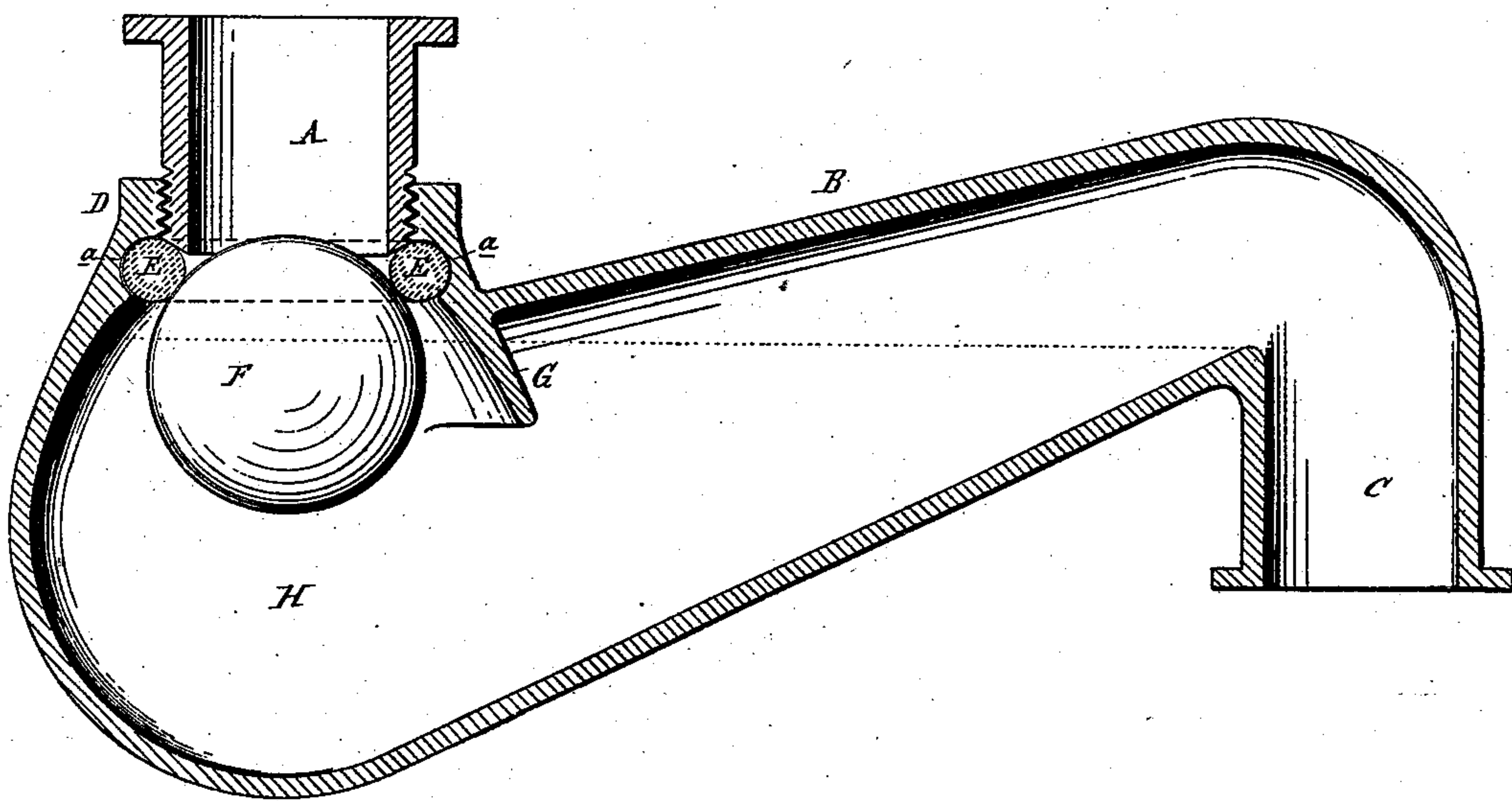


(No Model.)

E. B. WARD.
Sewer Trap.

No. 236,125.

Patented Dec. 28, 1880.



Attest:

A. Barthel

E. Scully.

Inventor:

E. B. Ward
By Atty
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UNITED STATES PATENT OFFICE.

ELECTUS B. WARD, OF DETROIT, MICHIGAN.

SEWER-TRAP.

SPECIFICATION forming part of Letters Patent No. 236,125, dated December 28, 1880.

Application filed September 16, 1880. (No model.)

To all whom it may concern:

Be it known that I, ELECTUS B. WARD, of Detroit, in the county of Wayne and State of Michigan, have invented an Improvement in Sewer-Traps, of which the following is a specification.

The nature of my invention relates to new and useful improvements in the construction of sewer-traps, and is especially designed as an improvement upon the construction of a device for a similar purpose, described in Patent No. 213,716, issued to me March 25, 1879.

The invention consists in the new and novel method of securing the gasket in place, and in the peculiar construction and combinations of the various parts, as more fully hereinafter set forth.

In the accompanying drawing, which forms a part of this specification, A represents a soil or inlet pipe screwed into the neck of the curved pipe B, which is formed in the shape shown, and provided with another neck, C, to which an outlet-pipe should be attached when in use. The upper end of the neck is upon a lower plane than the lower end of the neck to which the inlet-pipe is attached, so that when the pipe C overflows this latter-named neck, with its valve-seat and gasket, will be above the water-line. In the lower end of the neck D there is formed an annular depression, *a*, to receive the ring-gasket E. F is a valve, spherical in shape, and preferably made of sheet-copper, air and water-tight. G is a guide and guard flange, designed to guide the ball-valve to its seat and prevent the ball from passing out of the chamber H.

The ball-valve F is inserted through the neck D. The gasket E is then inserted and sprung into the annular recess *a*. The pipe A is then screwed to place, the lower end of the pipe impinging against the gasket-ring and compressing the same into its annular seat.

By this construction and arrangement of parts the ball-valve will be seated by the action of the water, with about one-third its periphery above the water-line, and the gasket and seal are entirely above the water-line. The guard G prevents, in addition to its other hereinbefore-described functions, the gas reaching the inlet-pipe when the valve is unseated for discharge through it.

What I claim as my invention is—

1. The combination, with the pipe B, provided with the interiorly screw-threaded neck D, having the annular recess *a*, of the gasket-ring E and inlet-pipe A, having its lower end exteriorly screw-threaded, whereby the gasket is secured in its annular seat, substantially as described.

2. The combination, with the curved pipe B, provided with the interiorly screw-threaded neck D, having an annular recess, *a*, of the gasket-ring E, inlet-pipe A, having its lower end exteriorly screw-threaded, and ball-valve F, substantially as described, and for the purpose set forth.

ELECTUS B. WARD.

Witnesses:

H. S. SPRAGUE,
E. SCULLY.