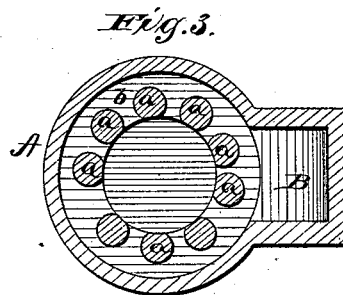
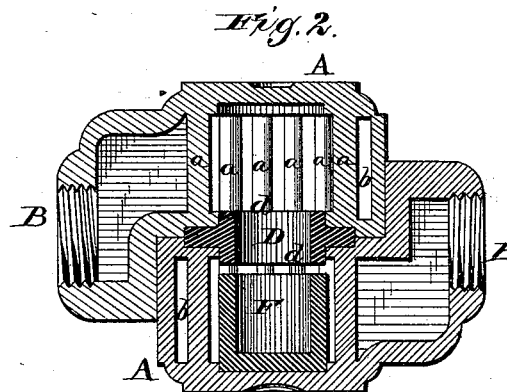
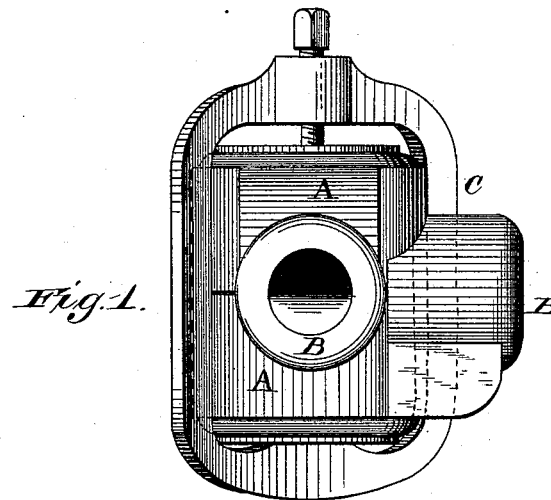


M. MORTON.  
Valves.

No. 215,653.

Patented May 20, 1879.



WITNESSES  
*Frank L. Curand*  
*W. H. Aubrey Toulmin*

INVENTOR  
*Matthew Morton*  
*Alexander Mason*  
ATTORNEYS

# UNITED STATES PATENT OFFICE.

MATTHEW MORTON, OF ROMEO, MICHIGAN.

## IMPROVEMENT IN VALVES.

Specification forming part of Letters Patent No. **215,653**, dated May 20, 1879; application filed March 28, 1879.

### *To all whom it may concern:*

Be it known that I, MATTHEW MORTON, of Romeo, in the county of Macomb, and in the State of Michigan, have invented certain new and useful Improvements in Valves; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a reversible check-valve which may be used in straight pipes or at any angle desired, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a side elevation of my valve. Fig. 2 is a central section of the same. Fig. 3 is a cross-section through one section of the shell.

The body of my valve is made in two sections or separate shells, A A, each having an inlet, B, for the connection of the pipe; and the two sections or shells are held together by a clamp, C, which admits of the two inlets being arranged in the same plane or at any angle to each other that may be required.

In each section or shell A is a series of bars, *a*, which form a cage for the valve, and between said bars and the shell is a water-space,

*b*, so as to give an equal pressure around the valve, and cause the same to lift and drop straight.

D is the valve-seat, which has a face, *d*, on each side. F is the valve, made in cup form, and placed in either shell A.

If either the valve or cage in which it works should become worn, the valve can be reversed and placed in the other cage, the seat being also reversible.

The seat and valve can be quickly taken out and fitted over with a common mill-file without the necessity of taking to a shop.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A check-valve case or body made in two equal halves or sections connected together by a clamping device, whereby the valve-case may be adjusted to be used on pipes running in a straight line or at any angle in the same plane, substantially as herein set forth.

2. The combination of the two sections or shells A A with clamping device C, reversible double seat D, and reversible valve F, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 21st day of March, 1879.

MATTHEW MORTON.

Witnesses:

J. L. STARKWEATHER,  
ALLEN R. SHEFFER.