

M. Cowing,
Railroad-Tank Valve,
N^o 101,827, *Patented Apr. 12, 1870.*

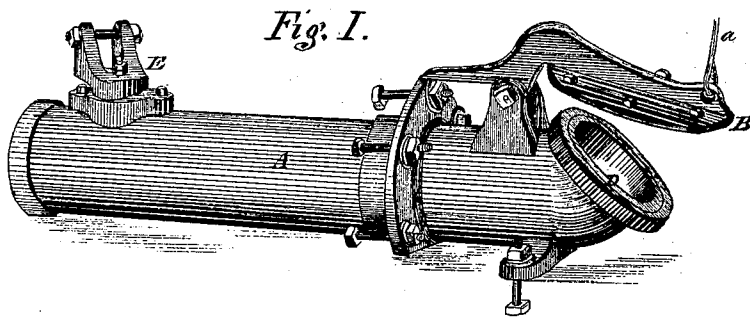
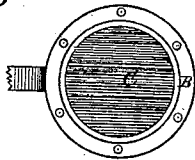


Fig. II.



Witnesses.
Jesse Howard Lord.
John S. Thornton

Inventor.
Marshall Cowing

United States Patent Office.

MARSHALL COWING, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF, JOHN P. COWING, PHILO COWING, AND GEORGE COWING, OF SAME PLACE.

Letters Patent No. 101,827, dated April 12, 1870.

IMPROVEMENT IN RAILROAD-TANK VALVES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, MARSHALL COWING, of the city, county, and State of New York, have invented new and useful Improvements in Valves for Railroad Tanks; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings forming part of this specification, and to the letters of reference marked thereon.

The object of my invention is to provide a valve for railroad tanks, which shall be very durable, as well as simple and cheap in its construction, and effective in operation.

The nature of my invention consists in constructing the valve-seat of gun metal, or other non-corroding metal, thereby avoiding destruction by oxidation, and in facing the valve with leather where it comes in contact with the valve-seat, by which means the valve is made perfectly tight, so that no leakage can occur, and also in providing a universal joint, to which the delivery spout is attached, so that by the combination of these improvements a cheap and durable valve is obtained, which is simple in its construction, and very efficient in its operation and not liable to get out of repair.

To enable others skilled in the art to make and use my invention, I will proceed to describe it.

Figure I is a perspective view of my improved tank-valve, and

Figure II is a detached view of the under side of the valve, showing the leather lining.

Letters of like name and kind indicate like parts in each of the figures.

A represents the body of the valve, which may be of ordinary construction, and secured within the tank by any suitable means.

B is the valve, which may be made of gun metal or other suitable material, and is provided with a facing of leather, C, where it comes in contact with the valve-seat D, by which means it is made to fit perfectly

tight, thus effectually preventing leakage when the valve is closed, and at the same time securing great durability.

The seat D is made of gun metal, or other non-corroding metal, thereby being capable of retaining its proper form for an indefinite length of time, and obviating a difficulty which has hitherto been encountered by the rusting or oxidation of the seat.

E is a swivel hinge or universal joint, to which the sheet-iron delivery spout is attached, by means of which the said spout can be swung around to any desired angle, either horizontally or vertically, when not in use.

a is a rope or chain, to elevate or lower the valve B, for the purpose of letting on or cutting off the flow of water.

I may mention that when a sheet-iron delivery spout is not used, a rubber or leather hose may be attached to the end of the valve.

The advantages of my invention are evident, for the reason that, the valve-seat being made of a non-corroding metal, no oxidation of the said seat can occur to produce leaking; also that, the valve being faced with leather where it comes in contact with the seat, causes it to fit thereon perfectly tight; and likewise that the swivel hinge or universal joint, to which is attached the delivery spout, enables the said spout to be swung around at any desired angle, either horizontally or vertically.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent of the United States, is—

The valve B, provided with the leather facing C and gun-metal valve-seat D, in combination with the swivel hinge E and body A of the valve, substantially as described, and for the purposes set forth.

MARSHALL COWING.

Witnesses:

JESSE HOWARD LORD,
JOHN S. THORNTON.