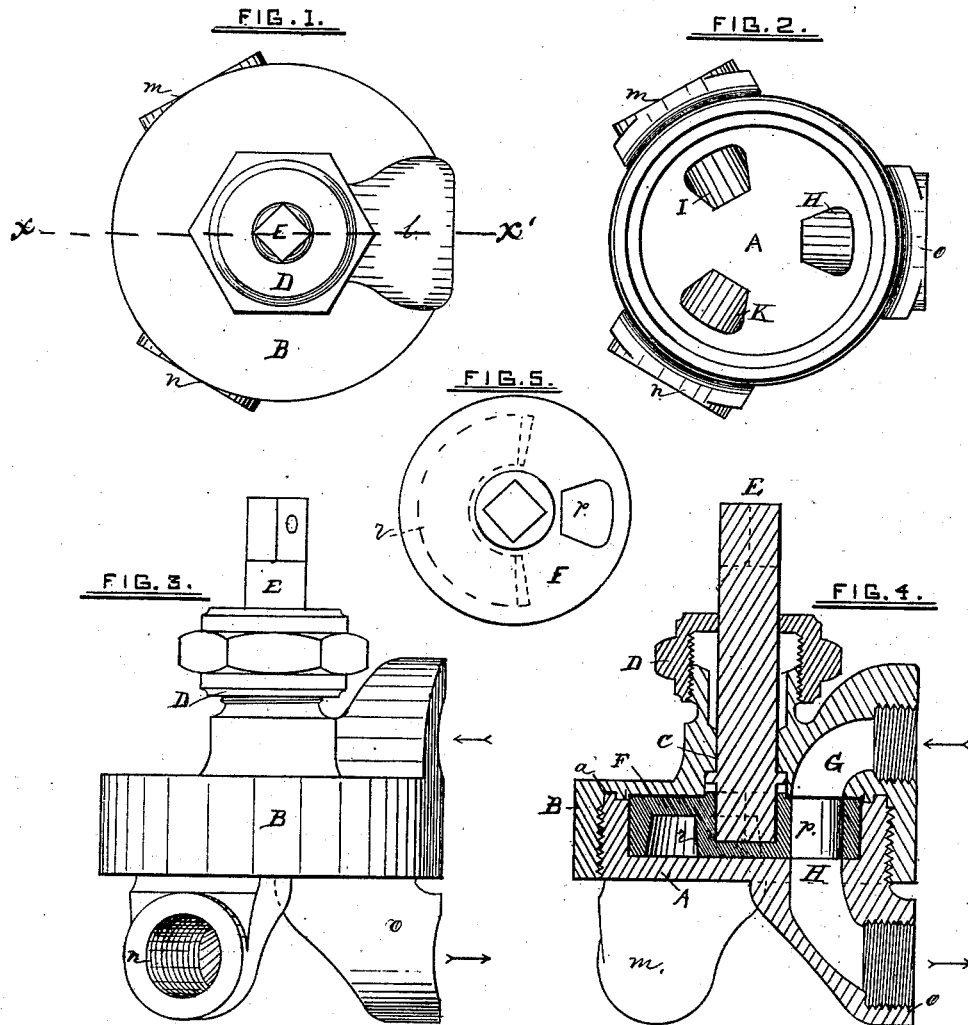


T. PITT.  
Valves.

No. 216,104.

Patented June 3, 1879.



WITNESSES.  
J. N. Miller  
Alfred W. J. Mason.

INVENTOR  
Thomas Pitt.  
BY H. N. Jenkins  
ATTORNEY.

# UNITED STATES PATENT OFFICE.

THOMAS PITT, OF NEW ORLEANS, LOUISIANA, ASSIGNOR TO FANNY ELIZABETH DE WOLF AND RACHAEL McBURNEY POWELL, OF QUEBEC, CANADA.

## IMPROVEMENT IN VALVES.

Specification forming part of Letters Patent No. **216,104**, dated June 3, 1879; application filed March 3, 1879.

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

Be it known that I, THOMAS PITT, a resident of the city of New Orleans, parish of Orleans, and State of Louisiana, have invented a certain new and useful Improvement in Valves; and I do hereby declare the following to be a full, clear, and correct description of the same, reference being had to the annexed drawings, making a part of this specification.

Figure 1 is a top view of the invention. Fig. 2 is a plan of the valve-seat or lower section of the device. Fig. 3 represents a side elevation; Fig. 4, a vertical section through the line  $x x'$ , and Fig. 5 a top view of the valve proper.

This invention consists of a valve-seat, A, upon which is screwed or otherwise fitted a cover, B, the latter provided with a circular opening, C, and stuffing-box D for the reception of a valve-rod, E, the lower end of which is made square, so as to fit in a similarly-shaped socket in the center of a circular valve, F. The upper end of the valve-rod is furnished with a crank or wheel, whereby the valve is operated.

In the top of the cover is constructed an opening, G, while the bottom or valve-seat is provided with three similarly-shaped openings, as at H I K. Pipe-butts are constructed on the outside of each of these openings, as at  $l m n o$ , and the inner ends of the openings, as well as a vertical opening,  $p$ , in the valve, are of equal area, and at an equal distance from the center of the device, in order that by turn-

ing the valve its vertical opening  $p$  may be brought immediately in line with any of the inlet or discharge openings.

The under side of the valve is provided with a groove,  $r$ , which is sunk to a depth of about one-half the valve. Its width equals that of the aforesaid openings, while its length is sufficient to cover at one time two of the same, thus permitting the flow through one to be directed into another whenever requisite.

A circular groove is cut in the cover, as at  $a$ , for the reception of a packing, whereby leakage around the same is effectually prevented.

My invention may be termed with more exactness a four-way valve or cock, inasmuch as the valve is provided with two separate passages, communicating with four pipes, through any one of which the liquid, air, steam, or whatever agent employed is directed as required.

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

The combination of a valve-seat, A, having openings H I K, cover B, with opening G, and valve F, with rod E, all constructed and arranged to operate as described, and for the purpose specified.

In testimony whereof I have hereunto signed my name.

THOS. PITT.

In presence of—

J. C. HUBBELL,  
P. J. FINNEY.