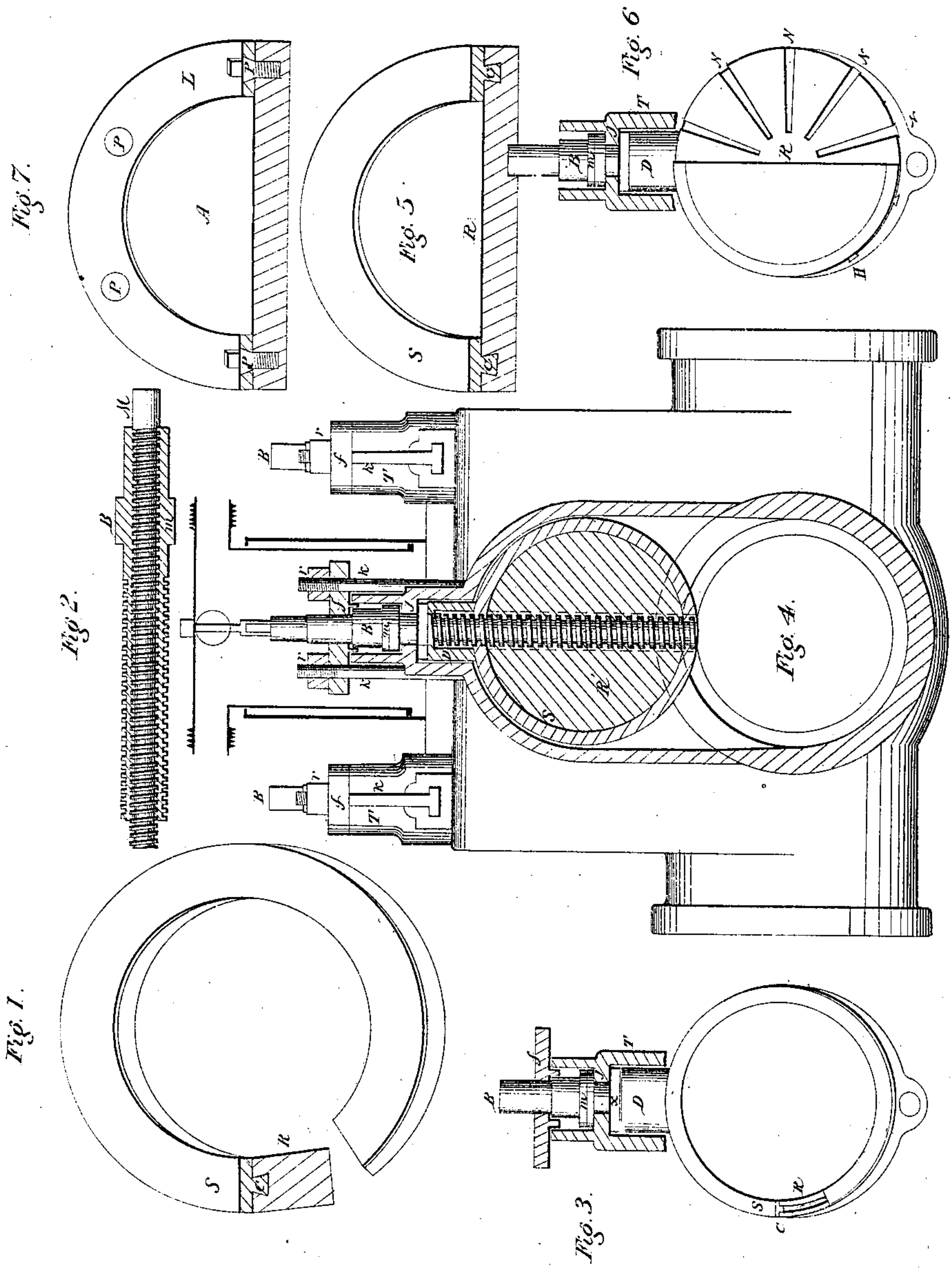


*J. L. Lowry,  
Stop Cock.*

*N<sup>o</sup> 41,077.*

*Patented Jan. 5, 1864.*



*Witnesses:*

*J. W. Ellis  
Kennedy Marshall*

*Inventor:*

*Joseph L. Lowry*

# UNITED STATES PATENT OFFICE.

JOSEPH L. LOWRY, OF PITTSBURG, PENNSYLVANIA.

## IMPROVEMENT IN COCKS.

Specification forming part of Letters Patent No. 41,077, dated January 5, 1864.

*To all whom it may concern:*

Be it known that I, JOSEPH L. LOWRY, of the city of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in the Construction of Stop Cocks; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 represents a brass and iron ring forming a valve-seat, part of which is cut away the better to show the plan by which they are united together. Fig. 2 shows a longitudinal section of the screw for lifting the valve. Fig. 3 represents the valve with a brass ring attached, secured in the same manner as at Fig. 1. Fig. 4 represents a vertical front section of a four-way cock, showing the manner in which the valve is lifted by the screw, also the mode of packing the same. Fig. 5 is a transverse section of a valve. Fig. 6 represents a front view of the valve with an entire brass face and its mode of attachment. Fig. 7 shows plainly the old method of attaching the brass to a cast-iron disk.

All the parts are lettered and similar letters indicate like parts on all the figures.

My invention consists of a superior and cheap method of packing around the stem or male screw, making a simple yet tight joint in a manner not easily got out of repair. For this purpose I construct the body of the stop cock with

a double stuffing-box, T, having a partition in the middle through which the stem B passes. Around this stem and just underneath the partition J is placed an india-rubber or gum gasket, X, which serves to tighten the joint when the valve is drawn up, as the upper part of the valve R is provided with a projection, D, which acts against the gum ring X when the valve is open.

On closing the valve by turning the screw the stem is prevented from rising on account of the cap *f* pressing down on a collar formed on the stem of the screw. This cap is made adjustable through the bolts K K and nuts thereon, *rr*. Inside of this stuffing-box and just above the partition J is placed another gum ring, F, which, as the valve is being forced down, is pressed upon the partition by a collar, *m*, on the stem of the screw B, which tends to keep the joint around the stem perfectly tight in either opening or closing the valve.

Having thus described my improvements in the construction of stop cocks, what I claim and desire to secure by Letters Patent, is—

The double stuffing-box T, with the partition J, in combination with the valve-stem B and collar *m*, the gum rings above and below the partition, arranged substantially as herein shown and set forth.

JOSEPH L. LOWRY.

Witnesses:

J. W. ELLS,  
KENNEDY MARSHALL.