

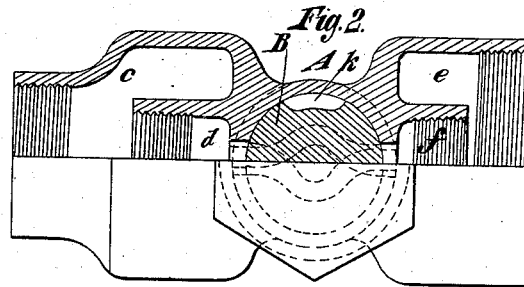
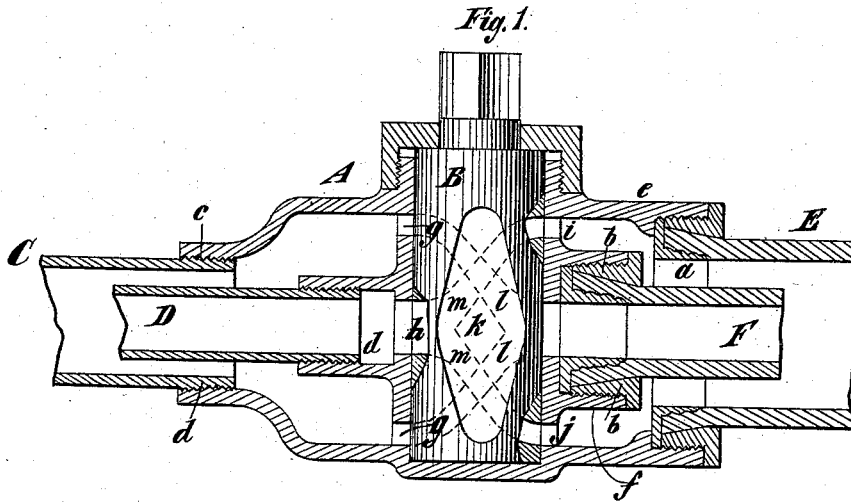
(No Model.)

M. J. WALSH.

COCK.

No. 265,194.

Patented Sept. 26, 1882.



Witnesses:

J. H. Keane  
James W. Bowen.

*Maurice J. Walsh*  
Inventor:  
By this atty.  
Edwin H. Brown.

# UNITED STATES PATENT OFFICE.

MAURICE J. WALSH, OF NEW YORK, N. Y., ASSIGNOR, BY MESNE ASSIGNMENTS, TO LOUIS FITZGERALD, OF SAME PLACE.

## COCK.

SPECIFICATION forming part of Letters Patent No. 265,194, dated September 26, 1882.

Application filed July 20, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, MAURICE J. WALSH, of New York, in the county of New York and State of New York, have invented a certain new and useful Improvement in Cocks, of which the following is a specification.

The present improvement relates particularly to a cock for use in conjunction with a car-heating apparatus, comprising pipes extending one within another inside a car and pipes extending one within another beyond the car. It is desirable that the heating agent should pass through the outer of the pipes inside the car, so as to have the maximum effect-iveness, and that it should pass through the inner of the pipes extending beyond the car, so as to be protected by the waste or expended heating agent.

It is the object of my improvement to produce a cock whereby the heating agent may be conducted from the outer of the pipes inside the car to the inner of the pipes extending beyond the car.

To this end the improvement consists in a cock having a plug provided with a port consisting of a recess or cavity in its exterior adapted to establish communication between two pipes extending inside a car, and two ports adapted, when the plug is reversely turned, to establish communication between the outer pipe inside the car and the inner pipe extending beyond the car, as also between the inner pipe inside the car and the outer pipe extending beyond the car.

In the accompanying drawings, Figure 1 is a sectional view of a cock embodying my improvement and pipes leading thereto, and Fig. 2 is a sectional plan of the said cock.

Similar letters of reference designate corresponding parts in both figures.

A designates the barrel or shell of the cock, and B designates the plug thereof.

C D designate rigid pipes, of metallic or other suitable material, extending through a car and screwed into sockets *c d* in the barrel of the cock.

E F designate flexible pipes extending beyond the car, and secured by gaskets *a b* in sockets *e f* in the barrel of the cock. The pipes C D communicate with ports *g h* in the barrel of the cock, and the pipes E F communicate with ports *i j* in the barrel of the cock.

The plug of the cock has a port, *k*, consisting of a recess or cavity in its exterior adapted to establish communication between the ports *g h*, and thence between the pipes C D. It also has two ports, *l m*, which, when the plug is reversely turned, respectively establish communication between the ports *h* and *i* and the ports *g* and *j*, thereby conducting the contents of the pipe D into the pipe E and the contents of the pipe C into the pipe F.

The plug B of the cock at the rear end of the last car of a train is turned so that its port *k* will establish communication between the pipes C D of that car; but the plugs of the other cocks are turned reversely, so that their ports *l m* will establish communication between the pipes C D and E F in the manner explained.

What I claim as my invention, and desire to secure by Letters Patent, is—

In a cock, the combination of the barrel A, provided with the ports *h i g j*, and the plug provided with the ports *k l m*, substantially as specified.

MAURICE J. WALSH.

Witnesses:

T. J. KEANE,  
JAMES R. BOWEN.