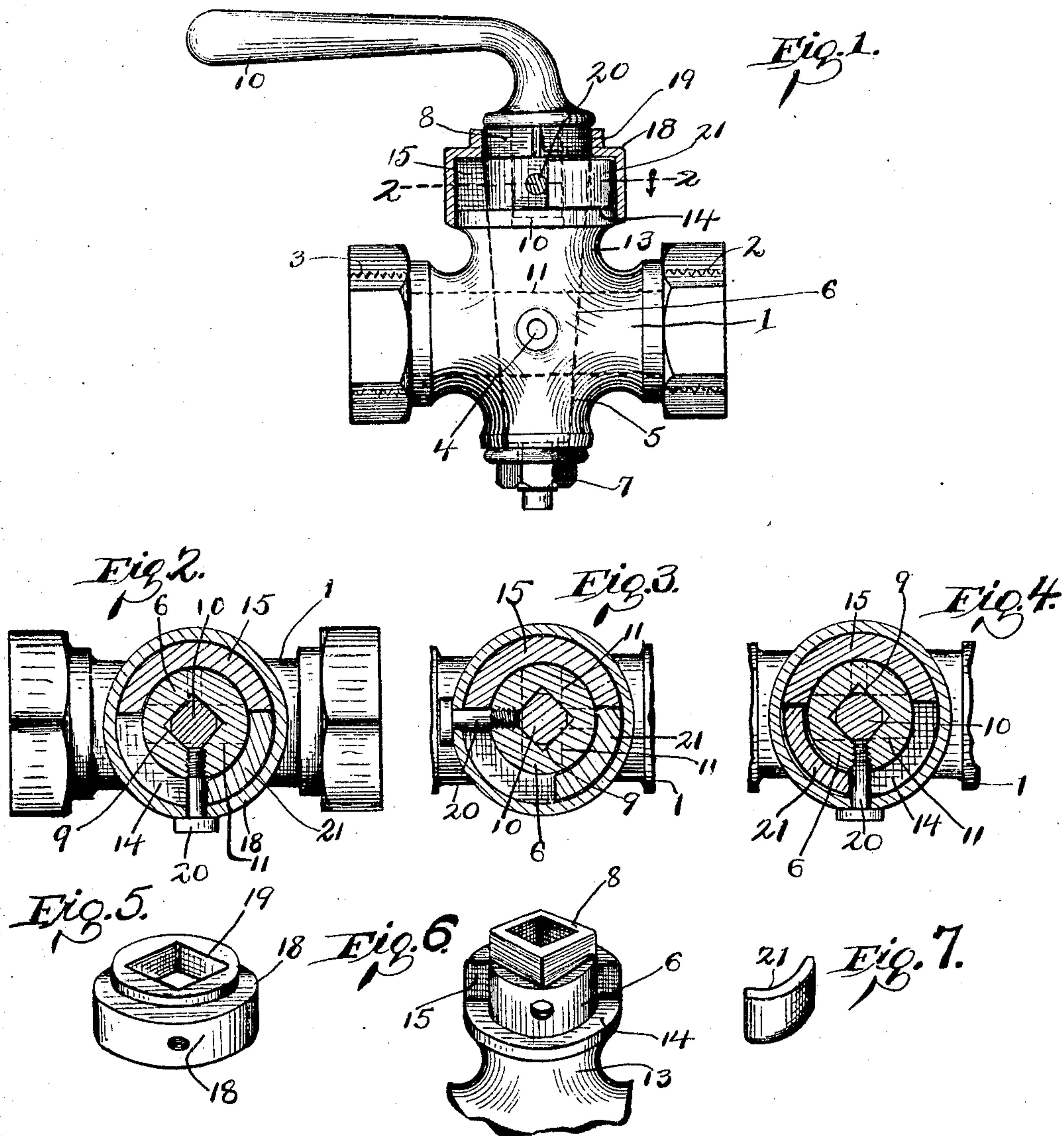


No. 871,432.

PATENTED NOV. 19, 1907.

W. V. McNAMARA.
STOP AND WASTE COCK.
APPLICATION FILED JULY 15, 1906.



WITNESSES:

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STOP AND WASTE COCK.

No. 871,432.

Specification of Letters Patent.

Patented Nov. 19, 1907.

Application filed July 15, 1905. Serial No. 269,854.

To all whom it may concern:

Be it known that I, WILLIAM V. McNAMARA, a citizen of the United States of America, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Stop and Waste Cocks; and I hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

This invention relates to improvements in stop and waste cocks.

The object of this invention is to provide a stop and waste cock which can be cheaply manufactured, easily assembled and having such an arrangement of parts that it can be readily changed so that it will serve either as a left hand or as a right hand cock.

My invention, therefore, consists in the features of construction and combination of parts as described in the specification, pointed out in the claims and illustrated in the drawings.

In the accompanying drawings Figure 1 is a view partly in section of a cock with the parts arranged to control water flowing from left to right through the cock and the valve open. Fig. 2 is a section on line 2—2, Fig. 1. Fig. 3 is a similar view to Fig. 2 showing the valve closed. Fig. 4 is a similar view to Fig. 2 showing the parts of the cock arranged to control water flowing through the cock from right to left. Fig. 5 shows the cap portion of the cock detached. Fig. 6 shows the upper portion of the shell and valve. Fig. 7 shows the curved plate, the position of which determines and limits the movement of the valve.

Again referring to the drawings 1 represents the shell of my improved stop and waste cock which is provided with the usual screw-threaded openings 2 and 3 into which the pipe sections are screwed, a drain opening 4 and the opening 5 for receiving the valve plug 6. The valve plug 6 is of the usual conical shape and is held in the shell in the customary manner by means of a nut 7. The upper end of the valve plug 6 is squared as at 8 and therein is formed a socket 9 for receiving the end of the removable handle 10. The valve plug is provided with the usual passageway 11. The valve casing is provided

with the usual neck portion 13, and on the rim thereof is formed a flat seat 14. On the neck 13 is also formed a vertical flange 15 which forms a stop at the ends of the said seat 14. On the neck portion 13 is arranged a cap 18 which is designed to fit down on the neck portion sufficiently to inclose the seat 14 and the flange 15 and to turn freely on the neck portion. In the top of the cap 18 is formed a square opening 19 the walls of which are arranged to snugly embrace the squared portion 8 of the valve plug 6 and therefore the cap 18 will move with the valve plug. A stop forming member is carried by the valve plug and preferably comprises a screw 20 which is passed through the side of the cap 18 above the seat 14 and also through the side wall of the socket 9 in the valve plug 6 and the end thereof engages the end of the handle 10. The screw 20, therefore, constitutes both a stop forming member on the valve plug and also means for securing the handle and cap to the valve plug.

A curved plate 21 approximately equal in height to the flange 15 and having a length slightly less than one-half of the length of the seat 14 is arranged within the cap 18 on the seat 14 and between the screw 20 and one end of the flange 15 accordingly as the valve plug is adjusted either to control the water flowing from the right or from the left. In Fig. 2 of the drawings the plate 21 is shown arranged between the flange 15 and the stop forming member 20, and the valve, as illustrated, is arranged to control water flowing from the left, and in Fig. 4 the plate 21 is arranged between the flange 15 and the stop forming member 20, and the valve, as illustrated, is arranged to control water flowing from the right.

What I claim is:—

In a stop and waste cock the combination of a valve casing having a neck portion, a seat formed on said neck portion, a semi-circular flange formed on said neck portion, the end walls of said flange constituting stops at the ends of said seat, a valve plug arranged to fit into said casing, said valve plug being angular in cross section at its upper end and having a socket formed therein, a handle arranged to fit in the socket in the valve plug, a cap provided with an angular opening, a screw extending through said cap and

into the socket in the valve plug so as to secure said cap and said handle to the valve plug and a laterally shiftable quadrant shaped plate arranged between said screw and the
5 end wall of the flange on the valve casing, substantially as described and for the purpose set forth.

In testimony whereof, I sign the foregoing specification, in the presence of two witnesses.

WILLIAM V. McNAMARA.

Witnesses:

VICTOR C. LYNCH,
N. L. McDONNELL.