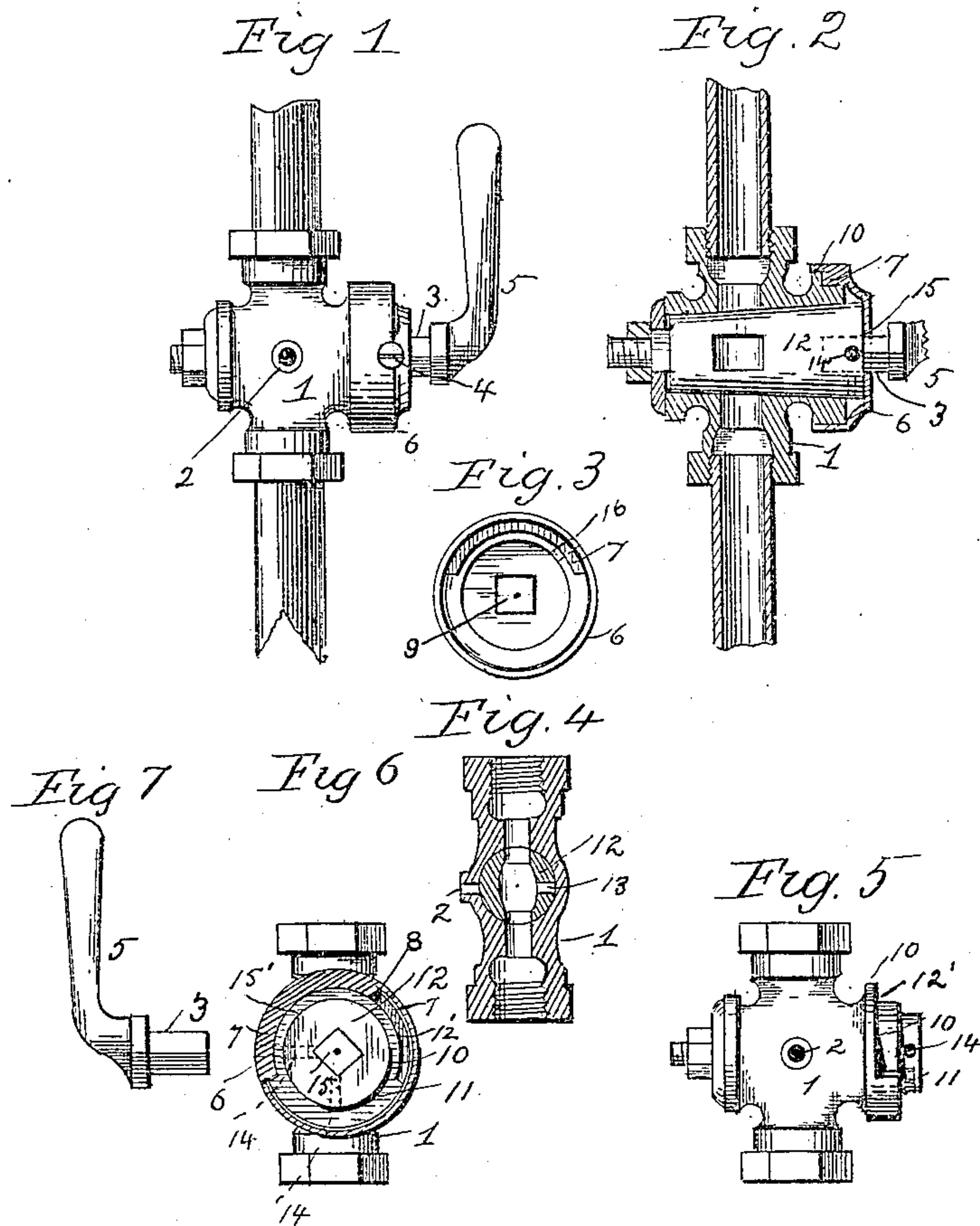


No. 816,795.

PATENTED APR. 3, 1906.

G. P. HILLEN.
STOP AND WASTE COCK.
APPLICATION FILED JULY 6, 1905.



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GEORGE P. HILLEN, OF LOUISVILLE, KENTUCKY.

STOP AND WASTE COCK.

No. 816,795.

Specification of Letters Patent.

Patented April 3, 1906.

Application filed July 6, 1905. Serial No. 268,454.

To all whom it may concern:

Be it known that I, GEORGE P. HILLEN, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Stop and Waste Cocks, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to interchangeable right and left stop and waste cocks; and it consists in the construction and combination of parts hereinafter described and claimed.

15 In the drawings, forming part of this specification, Figure 1 is a front elevation of the cock in one position, and Fig. 2 is a longitudinal section of the same. Fig. 3 is an interior view of the cap, which carries the adjustable stops and also protects the same. 20 Fig. 4 is a central section through the cock and crosswise of the plug. Fig. 5 is a front view of the cock with the handle and the cap removed. Fig. 6 is an end view of the cock with the cap in section, and Fig. 7 is a side 25 view of the handle.

The shell or body 1 has the customary waste-hole 2, and it also has the flange 10, provided with the segmental stop projection 11. The plug 12 has a waste-hole, as 13, and 30 its outer end is circular in cross-section and provided with a square recess 15 for the handle 5. The cap 6 is recessed to fit over the circular flange 10 of the shell. It has a segmental rib 7, between the ends of which the 35 stop 11 is received and for which stop the rib forms an adjustable bearing. The cap has the square hole 9, adapted to receive the square end 3 of the handle. The handle 5, which fits in the square hole in the cap and in 40 the socket, as in the end of the plug, is held in such socket by screw 4, which passes through hole 15 in the cap 6 and through a threaded hole 14 in the end of the plug.

In operation the cap is slipped over the end

of the plug in such position that the cap may 45 swing in the right direction to permit the plug to open when the handle is lowered. The handle is inserted into the socket, as shown, and is secured therein by the set-screw. Then 50 when the handle is turned the valve will open, the waste-hole 13 of the plug will receive the back water, and such water will waste through the plug-opening and hole 2 of 55 the shell. When the plug is completely open, the end 8 of rib 7 will strike against stop 11 and arrest the motion of the handle and the valve. The plug 12 has two screw-holes 14 at different positions to allow the cap 6 to be 60 so arranged that in turning against the stop 11 it will cause the cock to waste from either side or end of the shell. The space 12' of the flange 10 between the ends of the stop 11, in which the rib 7 on the cap moves, is cut away 65 only about half the diametrical thickness of the flange 10, and about two-thirds way around, the inner half of the flange at this point being continuous with the rest of the flange and forming a guard 15', which prevents the burs formed by the ends of the 70 latter striking the stop 11 from interfering with the movements of the key and plug.

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

In a stop and waste cock, the body or shell 75 1, having the annular flange 10, recessed at 12, and having the inner part or wall of said recess continuous with the flange to form a protecting-guard for the plug, in combination with the cap 6, having the rib 7, and the 80 handle 5 adapted to engage with and turn the cap and plug, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE P. HILLEN.

Witnesses:

ARTHUR H. WEILAGE,
O. M. FLEMING.