(No Model.)

J. TOTHAM. REVERSIBLE STOP AND WASTE COCK.

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No. 568,181 Fig.2 Fig С

Patented Sept. 22, 1896.

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UNITED STATES PATENT OFFICE.

JAMES TOTHAM, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE PECK BROS. & COMPANY, OF SAME PLACE.

REVERSIBLE STOP AND WASTE COCK.

SPECIFICATION forming part of Letters Patent No. 568,181, dated September 22, 1896. Application filed December 23, 1895. Serial No. 573,049. (No model.)

To all whom it may concern:

Be it known that I, JAMES TOTHAM, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improve-5 ment in Reversible Stop and Waste Cocks; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a view in side elevation of a reversible stop and waste cock constructed in 15 accordance with my invention and assembled for use as a right-hand cock. Fig. 2 shows the same cock assembled for use as a lefthand cock; Fig. 3, a broken view of the cock in elevation, with the handle and stop-20 collar removed; Fig. 4, a sectional view of the cock on the line a b of Fig. 1; Fig. 5, a detached view of the stop-collar in front elevation; Fig. 6, a perspective view of the same part; Fig. 7, a detached view of the 25 lever-handle of the cock; Fig. 8, a similar view of such a **T**-handle as may be employed in lieu of a lever-handle. My invention relates to an improvement in stop and waste cocks, the object being to 30 produce at a low cost for manufacture a simple, durable, convenient, and effective cock, constructed with particular reference to reversing it for use as a right-hand cock or as a left-hand cock, as desired, whereby the ex-35 pense of making and carrying special right and left hand cocks is avoided. With these ends in view my invention consists in a reversible stop and waste cock having certain details of construction and com-40 binations of parts, as will be hereinafter described, and pointed out in the claim.

lar at points closely adjacent to the said grooves. The said collar is provided with a set-screw B, located in its plane and entering its squared central opening A' at the 55corner thereof opposite the groove R aforesaid. The said screw is designed to couple the handle C of the cock with the rectangular stem E of the valve E', which, as well as the valve-body F, may be of any ordinary con- 60 struction and adapted to operate on the wellknown stop-and-waste principle. The said stem E is, as aforesaid, rectangular in crosssection and constructed with a rectangular opening E^2 , adapted to receive the solid rec- 65 tangular shank C' of the lever-handle C, the said shank C' having retaining-notches C² and C^3 for the reception of the inner end of the screw B, which, before it enters either of the said notches C^2 and C^3 , enters either one or 70 the other of two threaded openings E^3 E^4 , formed at right angles to each other in corners of the valve-stem E, as shown in Fig. 4, the threaded opening and notch entered by the screw depending on the way the stop- 75 collar A and handle C are applied to the valve-stem E. The said valve-stem E is also constructed with a rib e, projecting from one of its four corners and adapted to enter either one of the two grooves L and R of 80 the stop-collar A. The said stop-collar is furnished with an inwardly-projecting stopfinger A², designed to engage with stop-arms or projections F' and F^2 , located in the same horizontal plane with each other and formed 85 integral with the valve-body F, as shown, or, if preferred, formed independent thereof and applied thereto. It will be understood, of course, that these stop-arms F' and F^2 are arranged to permit a quarter-turn of the valve 90 and so as to stop the rotation thereof when the same is in its full open and full closed po-

In carrying out my invention I employ a sitions. The cock becomes a right-hand cock shiftable stop-collar A, having a square cenor a left-hand cock according to the position tral opening A', two adjacent points of which in which the stop-collar A and handle are 95 merge into transverse offsetting grooves L applied to the hollow valve-stem. If the 45 stop-collar is applied to the valve-stem so as and R, located at a right angle to each other. The said letter L may be taken to stand for to have its groove R coincide with the rib e the word "left" and the said letter R may of the stem, the cock becomes adapted for be taken to stand for the word "right." In use as a right-hand cock, as seen in Fig. 1, 100 while if the collar is applied so as to bring 50 constructing the device the letters L and R will by preference be stamped into the colits groove or offset L in coincidence with the

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rib e of the valve-stem the cock becomes a left-hand cock, as seen in Fig. 2.

Instead of using a lever-handle C, I may employ a T-handle D, having a solid rectan5 gular shank D', constructed with two retaining-notches d and d'.

It is apparent that in carrying out my invention some changes from the construction herein shown and described may be made. I 10 would therefore have it understood that I do not limit myself to the form set forth, but hold myself at liberty to make such changes as fairly fall within the spirit and scope of my invention.

15 Having fully described my invention, what

with an outwardly-projecting longitudinal rib located upon the apex of one of its corners; a stop-collar having a rectangular open-25 ing adapting it to fit over the said stem, and formed with two grooves leading out of two of its adjacent corners, one or the other of the said grooves receiving the said rib according to the position of the collar upon the 30 stem; a handle having a rectangular shank adapted to enter the rectangular opening of the said stem; and a screw mounted in the collar and extending laterally through the same and through the valve-stem and imping-35 ing upon the shank of the handle for holding the same, as well as the collar in place.

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I claim as new, and desire to secure by Letters Patent, is—

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In a reversible stop and waste cock, the combination with a body having two stop-20 arms, of a valve located in the said body and constructed with a rectangular stem having a hollow rectangular opening, and provided

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JAMES TOTHAM.

Witnesses:

CHARLES F. CURTISS, G. W. DUTCHER.

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