

J. Ridgway,
Cock.

N^o 2,563.

Patented Apr. 16, 1842.

Fig: 1.

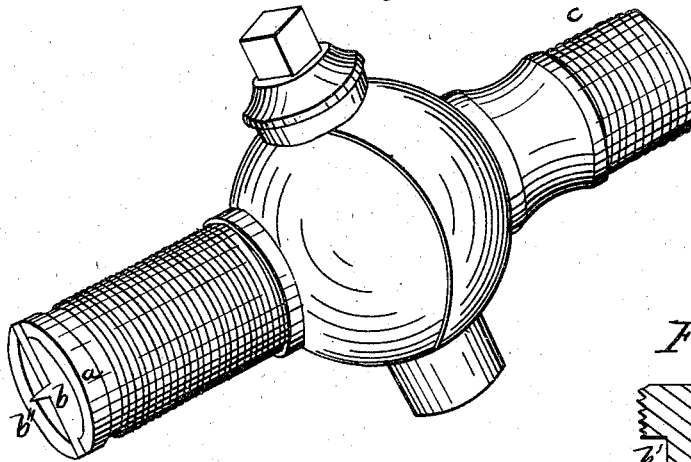
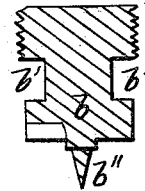


Fig: 2.



UNITED STATES PATENT OFFICE.

JONATHAN RIDGWAY, OF NEW YORK, N. Y.

STOP-COCK.

Specification forming part of Letters Patent No. 2,563, dated April 16, 1842; Reissued September 23, 1843, No. 55.

To all whom it may concern:

Be it known that I, JONATHAN RIDGWAY, of the city, county, and State of New York, have invented a new and useful Improvement in Stop-Cocks for Tapping Vessels Under Pressure, and that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, making a part of this specification, in which—

Figure 1, is a perspective of cock; Fig. 2, the cutter detached.

On that end of a stop-cock (*a*) which is to be inserted into a pipe or vessel, is affixed a cutter (*b*) in the following manner: A flat piece of metal (see Fig. 2) having a square notch (*b'*) in each side edge, a point (*b''*) projecting from the center of its lower edge, which is beveled off on each side, so as to form cutters turning in opposite directions; above the notches (*b'*) the edges are serrated to conform to the shape of the thread of a screw; this pin of metal is inserted into the core, around which the stop-cock, of any of the ordinary forms, is cast, and thus firmly affixed thereto, having a ring of metal extending entirely around where the notches (*b'*) are; a groove can be turned in this ring, into which packing can be inserted, if necessary; the projecting sides of the cutter extend through to the out-

side to assist in the operation of cutting. A stop-cock is thus formed that will cut and screw its own way into metal or wood, the cutters being constructed either for one, or the other; when a branch pipe is to be attached, a screw is made on the end (*c*) opposite to the cutter; and, for facility in turning it, a drill brace may be temporarily attached thereto.

By means of this instrument pipes or vessels of every description can be tapped, and the stop-cock inserted at one operation under hydrostatic or other pressure, without losing any part of their contents.

I do not intend in constructing these stop-cocks to confine myself to the exact method above described of forming the cutters as they may be made to screw on, or be attached in any way, well known to practical mechanics.

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

The combination of a cutter with the stop-cock, or faucet made in any of the usual ways, in the manner and for the purpose herein described.

JONATHAN RIDGWAY.

Witnesses:

WM. GREENOUGH,
J. H. GODDARD.