

No. 628,999.

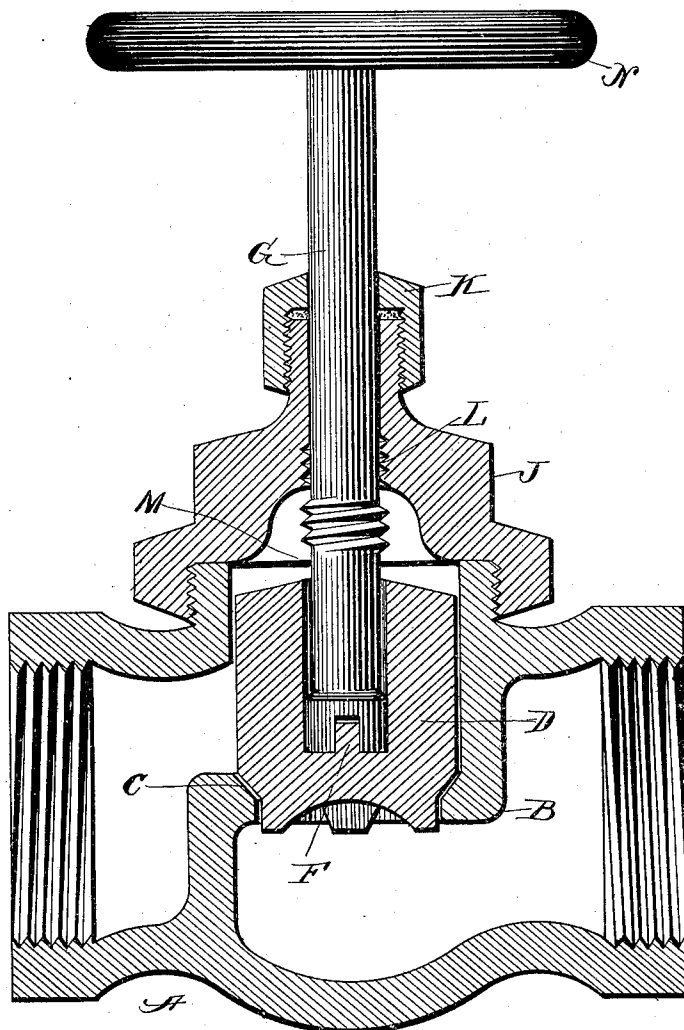
Patented July 18, 1899.

T. WALTZ & W. BELL.

CHECK VALVE.

(Application filed June 23, 1897.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

THOMAS WALTZ AND WILLIAM BELL, OF NEWTON, ILLINOIS.

CHECK-VALVE.

SPECIFICATION forming part of Letters Patent No. 628,999, dated July 18, 1899.

Application filed June 23, 1897. Serial No. 642,006. (No model.)

To all whom it may concern:

Be it known that we, THOMAS WALTZ and WILLIAM BELL, citizens of the United States, residing at Newton, in the county of Jasper, and in the State of Illinois, have invented certain new and useful Improvements in Check-Valves, of which the following is a specification.

This invention relates to check-valves, and more particularly to that class of valves having means whereby the disks may be ground to their seats without removing them from the valves.

The object of this invention is to regrind the disk and seat of a valve, thereby removing any foreign substance that may have lodged between the same.

Another object of this invention is to regrind the disk and seat without removing the valve from its position or removing the cap or any part thereof, the same being done while under the pressure of air, steam, or water.

For the attainment of these objects and for other purposes hereinafter enumerated in brief, certain details of construction, arrangement, and combination of parts will be more fully described hereinafter.

The novel features of the invention are embraced in the appended claim, which is intended to accord in its spirit and meaning with the prior state of the art and the existing law.

Reference being had to the accompanying drawing, the figure is a cross-sectional view of the complete valve, showing all the parts in place for regrinding.

Referring by letters to the drawing, A represents the valve-stock, having a diaphragm B therein provided with an opening or valve seat C for the passage of the water, steam, or air and the reception of the disk D. The disk is constructed of a solid piece, having in the top and center thereof a recess E, in the bottom of which is a lug F. The valve-rod

G is provided with an enlarged portion H, adapted to fit into the recess E, said enlarged portion having a slot I in the bottom thereof for engaging the lug F, the purpose of which will be hereinafter explained.

The valve-rod passes out through the cup or plug J, which is screwed over an opening in the valve-stock and is provided with a stuffing-box K. On the interior of the plug are screw-threads L, adapted to engage the threads M on the valve-rod, which is made to traverse the same by the hand-wheel N.

In regrinding the disk and seat the hand-wheel is turned down until the threads M on the valve-rod are disengaged with the threads L upon the interior of the cap or plug. The rod is then shoved down, the enlarged portion H fitting in the recess E and the slot I engaging the lug F, which prevents the said rod from revolving therein and provides means whereby the said disk and seat may be ground together.

It will thus be seen that we provide a valve-seat and disk grinder that will proficiently perform all of its intended functions.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In a globe or other valve, the combination of a solid disk having a recess therein, the said recess provided with a lug, of a valve-rod having an enlarged portion adapted to slide within the said recess, the said enlarged portion having a slot adapted to engage the said lug, of screw-threads upon the said rod and the interior of the cap their relation being such with respect to each other as to raise and lower the said rod substantially as shown and for the purpose set forth.

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