

G. B. PORSCH.
VALVE OPERATING DEVICE.
APPLICATION FILED AUG. 11, 1911.

1,059,315.

Patented Apr. 15, 1913.

Fig. 1.

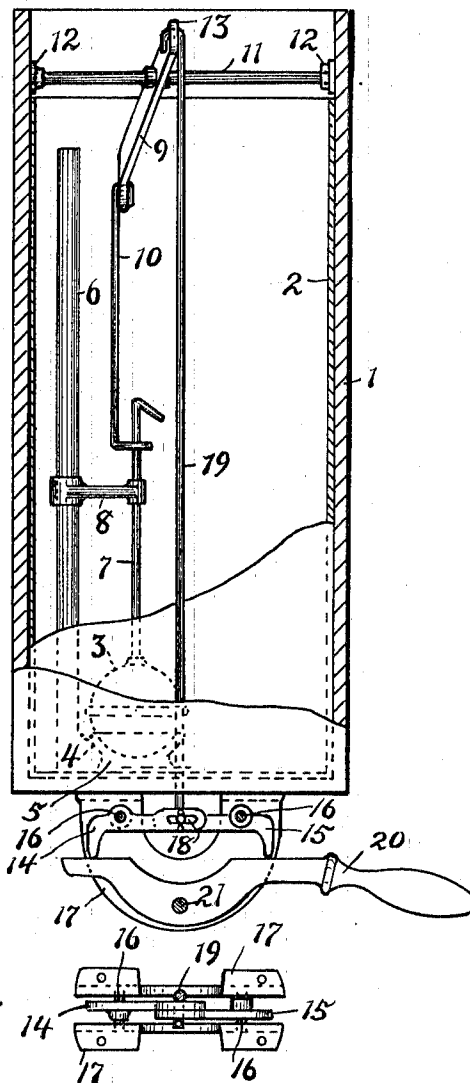
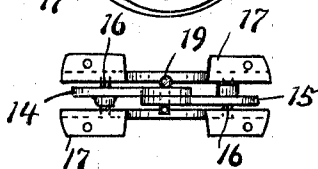


Fig. 2.



WITNESSES:

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GEORGE B. PORSCH, OF FORT WAYNE, INDIANA, ASSIGNOR TO KNOTT MANUFACTURING COMPANY, A CORPORATION OF INDIANA.

VALVE-OPERATING DEVICE.

1,059,315.

Specification of Letters Patent.

Patented Apr. 15, 1913.

Application filed August 11, 1911. Serial No. 643,565.

To all whom it may concern:

Be it known that I, GEORGE B. PORSCH, a citizen of the United States of America, and resident of Fort Wayne, in the county of Allen and State of Indiana, have invented certain new and useful Improvements in Valve-Operating Devices, of which the following is a specification.

This invention relates to improvements in valve operating devices of the class used in connection with flushing tanks, and the object thereof is to provide a device of simple construction in which the operation, for which it is intended, may be effected by moving a handle either upward or downward. This object is accomplished by the construction illustrated in the accompanying drawings in which:

Figure 1 is a side elevation, partly in section and partly cut away, showing the operating mechanism in connection with a flushing tank; and Fig. 2 is a detailed view showing a plan of the oppositely disposed levers and supporting brackets.

Similar numerals of reference indicate corresponding parts in both views, and referring now to the same: 1 is a flushing tank, and 2 is a lining of metal within the tank.

3 is a valve that rests upon a seat 4 within the tank and closes the discharge out-let 5. The out-let has in connection therewith an over-flow pipe 6 which extends up into the tank. The construction of the out-let and over-flow pipe, the valve 3, its stem 7 and guide 8, the valve lever 9 and link 10, are of known construction and constitute the apparatus which the present invention is intended to operate. The lever 9 is mounted upon a shaft 11 which is supported in the upper part of the tank at its ends upon brackets 12, and it is the intention that a downward pull upon the rear end 13 of the lever will effect the lifting of the valve 3 to permit the discharge from the tank through its outlet.

The invention comprises the two levers

14 and 15 which are oppositely disposed and respectively mounted upon corresponding shafts 16, the latter being fixed in brackets 17 which are secured to the bottom of the tank 1. The inner ends of the levers 14 and 15 are slotted as shown at 18 and lap one another so that the slots register. A connecting rod 19 is secured at its upper end to the rear end 13 of the lever 9, and at its lower end has connection with each of the levers 14 and 15, its end extending through said slots. Beneath the levers 14 and 15 is mounted an operating lever 20, the shaft 21 affording a fulcrum therefor. The outer ends of the levers 14 and 15 are adapted to be engaged and moved by the lever, each having contact with the lever, one upon one side of the fulcrum of the lever and the other upon the opposite side thereof, the idea being that upon either raising or lowering the handle of the lever, the one or the other of the levers 14 and 15 will be acted upon so as to draw the connecting rod 19 downwardly and thereby actuate the valve lever.

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

In a device of the class described, a valve mechanism having a valve lever; a connecting rod attached to the lever to actuate the same; two levers pivotally mounted and disposed oppositely to one another, their ends lapping and each having a slot therein adapted to receive the end of the connecting rod; and an operating lever having its fulcrum in a plane lying between the pivotal supports of the oppositely disposed levers, and being adapted to engage and actuate the said levers severally.

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

GEORGE B. PORSCH.

Witnesses:

WALTER G. BURNS,
MATHILDA METTLER.