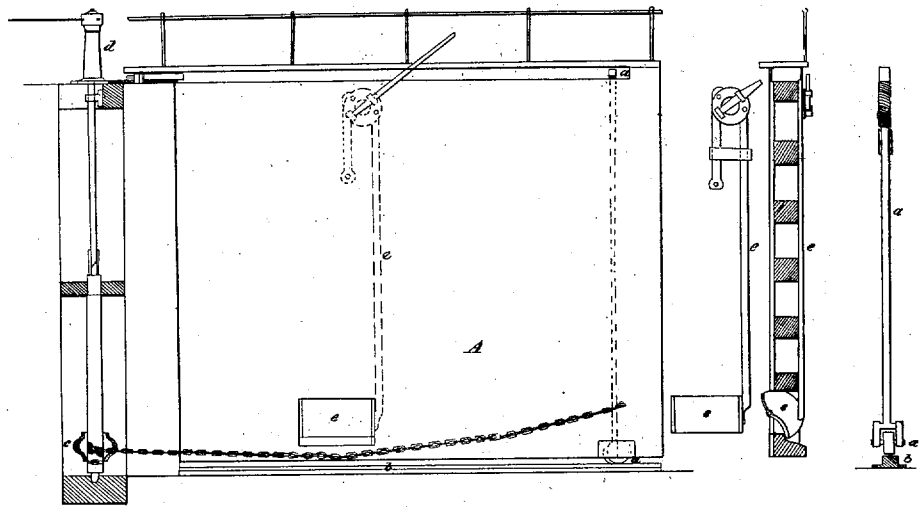
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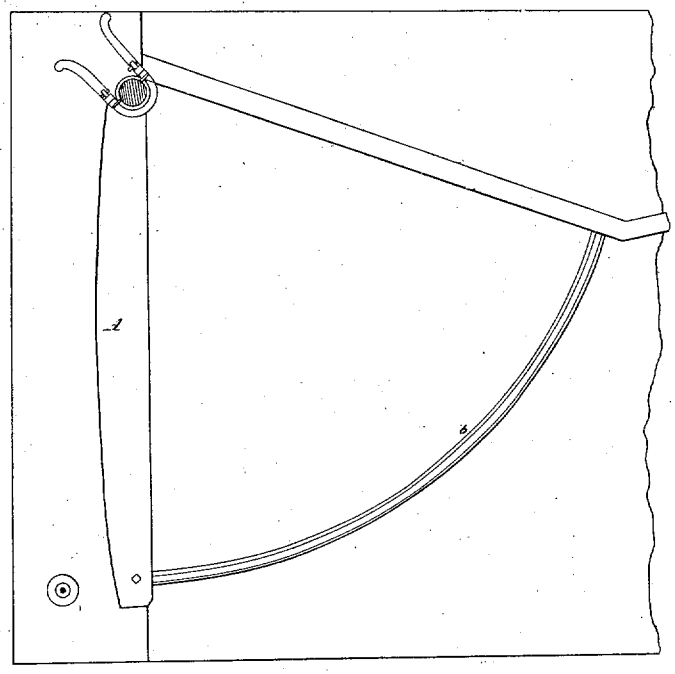
D. WILKINSON.

CANAL LOCK GATE.

Patented Aug. 17, 1835.







THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

9040X Aug. 17 1835

David Wilkinson of Albany New York
Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said David Wilkinson himself of his improvement in Gates for Canal Locks.

Be it known that I David Wilkinson of Cohoes ... Albany County, State of New York, have made an improvement in Gates for Canal Locks, which is described as follows.

This Gate is constructed in the usual manner. The improvement consist in the mode of adjusting the friction Roller to the quadrant or circular rail any - the ride to guide the chain on the capstan - the ratchet or pall in the head of the capstan to prevent its being turned in a wrong direction, and the self adjusting valve gate. The friction roller is adjusted by means of a slide bar passing through the wooden bars of the Gate bearing one sliding frame or box which contains the friction Roller. The rod is raised or lowered by a nut and screw on the top of the rod. The mode of suspension may be various to suit circumstances. The ride placed at the bottom of the capstan - to guide the chain on the capstan is constructed by having a thimble to pass around the drum. The under edge of which is made in a spiral form with a tube attached to the same through which the chain passes. The top of the capstan into which the lever is inserted is made so as to contain a click or pall against which the lever may catch this will prevent its ever being turned the wrong way. The self adjusting valve gate is constructed so as to open by the pressure of the water to effect this the gate is hung by a hinge bar or joint. There are one or more connecting rods fixed on the back side of the main gate attached to the lower edge of the valve and extending to the top of the gate which are held down by a screw at the top or they may be held down by any other means. The said Gate may be placed perpendicularly as may be deemed convenient in some cases. Or the valve gate may differ by the force of the water and close upward by

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the force of the screw or lever. Operation. When the Gate is shut it moves along the quadrant or circular rail way by the use of the chain and capstan. The lock being full of water. the catch on the screw which holds down the valve gate is detached and the screw being so graduated as to be raised by the force of the water. the pressure of water opens the valve which gives motion to the screw. When the screw is sufficiently high another pall falls into gear and holds it up. When the water is equalized in the upper and lower locks the screw by its own weight closes the valves and the pall holds it fast till detached by hand or the pall may be dispensed with and the screw may be so graduated as to remain stationary without the assistance of the pall or catch.

The invention here claimed and desired to be secured by Letters Patent consists in the before described mode of adjusting the friction Rollers in the quadrant or circular rail way. the ride to guide the chain on the capstan — the open head with the pulls of the capstan and the self adjusting valve gate

Witnesses
W.H. & Elliot
Thos. Smith

David Wilkinson

(1024 words)

(Granted August 17. 1835)

Drawing of Mode