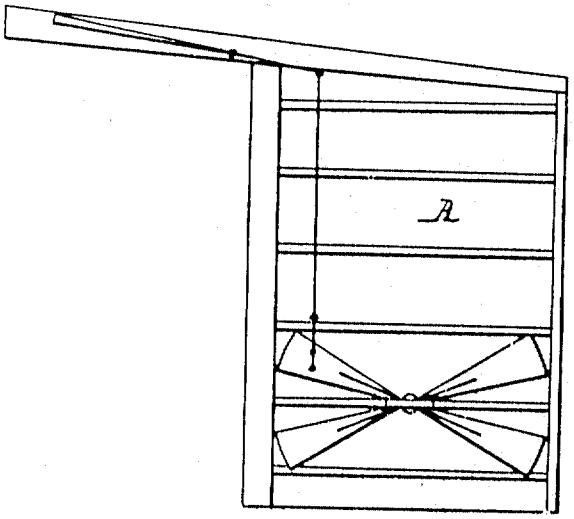
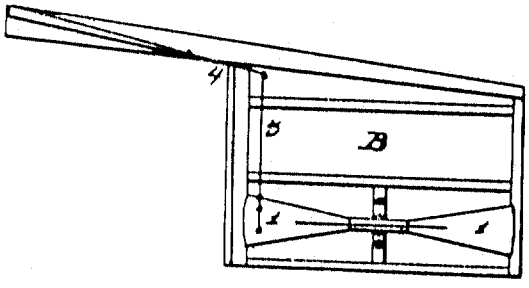
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E. Trumbull.

Canal Gate.

Patented Apr. 4, 1833.





THE ORAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

Nr. 10

Apl 4, 1833 26½

Carl Trumbull. Little Falls. New York.

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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 Carl Trumbull himself of his improvement in the Paddle Gate.

To all to whom these presents shall come.

Be it known that I, Carl Trumbull of Little Falls in the County of Herkimer State of New York, have invented a new and useful improvement in the Paddle Gate for filling & emptying Canal Locks, letting water in & out of canals, & as a gate to be applied to all purposes for permitting or retarding the passage of water under a pressure or head.

Said improvement is called the Radiating Paddle Gate it may be made of cast or wrought iron or any other metal or of wood. The annexed drawing marked A. represents a large gate of a lock with the radiating paddle attached in its most simple form.

B B. represent two wings of the radiating paddle gate, covering orifices in the main gate, thro' which water is intended to pass. Said Radiating paddle gate, is to be attached to the upper side of the Canal gate thus on a cradle.

The face of the Radiating Paddle gate next to the large gate is a plane & slides on the planking of the large gate.

On the outside of the radiating Paddle gate, acr[oss] the center the gate is made thicker than at the ends of the wings in order to give it sufficient strength.

When a large quantity of water is required to escape in a short time it may be advisable to add, an additional number of wings, as in figure C. in the annexed drawing

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drawing, with a space between each of a width at least equal to the width of the wing.

3. Represents a disk or operating center on which the radiating paddle gate turns, and thro' the center of which is passed a bolt by which said paddle is attached to the main gate, said operating center is varied in size in proportion to the size of the wings. (in one used for the purpose of experiment the operating center was between four & five inches in diameter when the radiating Paddle gate was seven & half feet in length & the wings were fourteen inches wide at the outer extremity. Said operating center turns in a Metallic box firmly fixed in the large gate, the outer surface of said box, being on a plane with the surface of said gate & the operating center sinking into said box, a sufficient distance to sustain the radiating paddle gate, & permit the surface of the two gates to come in contact.

3. Represents a rod, attached to the paddle gate, for the purpose of opening & shutting the same.

4. Represents a lever by which a power is applied to open & shut said paddle gate, attached to rod 3. & turning on a bolt as a fulcrum in the balance beam of the large gate.

I claim as new & my invention in the above described apparatus the radiating paddle gate & its application to canal locks and all purposes as enumerated in the preamble of this specification.

Witnesses
C. Thurlbat
C. A. Phillips
560 rds.

Earl Trumbull

Dr on port holes