

2. Sheets, Street 1.

No. 113661.

*Patented Apr. 11. 1871.*



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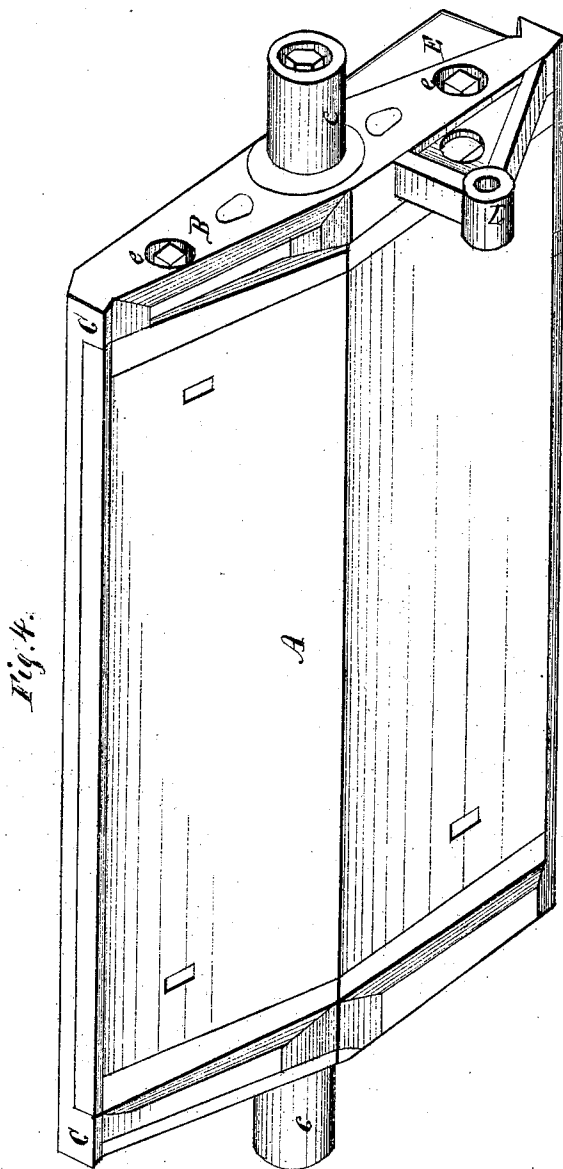
*G. Heath,*

*2. Sheets, Sheet 2.*

*Central Lock Valve.*

*No. 113,661.*

*Patented Apr. 11. 1891.*



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# UNITED STATES PATENT OFFICE.

GEORGE HEATH, OF LITTLE FALLS, NEW YORK.

## IMPROVEMENT IN CANAL-LOCK VALVES.

Specification forming part of Letters Patent No. **113,661**, dated April 11, 1871.

*To all whom it may concern :*

Be it known that I, GEORGE HEATH, of Little Falls, in the county of Herkimer and State of New York, have invented certain new and useful Improvements in Canal-Lock Valves or Wickets; and do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

My present invention is intended as an improvement upon the canal-lock valve for which Letters Patent were granted to me July 1, 1862; and it consists in the addition of a beveled or inclined piece on one side of the gate, or in making the gate itself of such inclined or beveled form; and also in making the distance from its journals to the lower edge somewhat longer than to the upper edge, whereby the gate will be the more easily operated.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figure 1 is a plan view of the valve in section. Fig. 2 is an end section of the frame. Fig. 3 is a transverse section, showing the valve in position; and Fig. 4 is a perspective view of the valve with its attachments.

A represents the wood-work of the valve.

B B are the iron heads, which traverse the ends, and C C the iron edges or seat. *a* is the rectangular frame, with bearings *b* to support the whole apparatus, in which are the journals *c*. In the frame *a* are rabbeted cleats *C'*, which form the valve-seats, as shown in Fig. 2. L is a projecting elbow, to which the operating-rod is attached for opening and closing. The bearing edges or seats C C are struck from the center of the valve by beveling, and when the valve is used in a horizontal position the lower half must be the longer and governed in its greater length by the head of water under which it is operated. Besides this, an inclined or wedge-shaped piece, E, is attached to the upper part of the gate or valve, whereby the water, instead of resisting the operation of the valve, will assist in its working and facilitate the same.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The valve A, hung upon journals *c c*, the distance from said journals to the lower edge being greater than to the upper, and the valve provided with the piece E, substantially as and for the purposes herein set forth.

GEO. HEATH.

Witnesses:

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