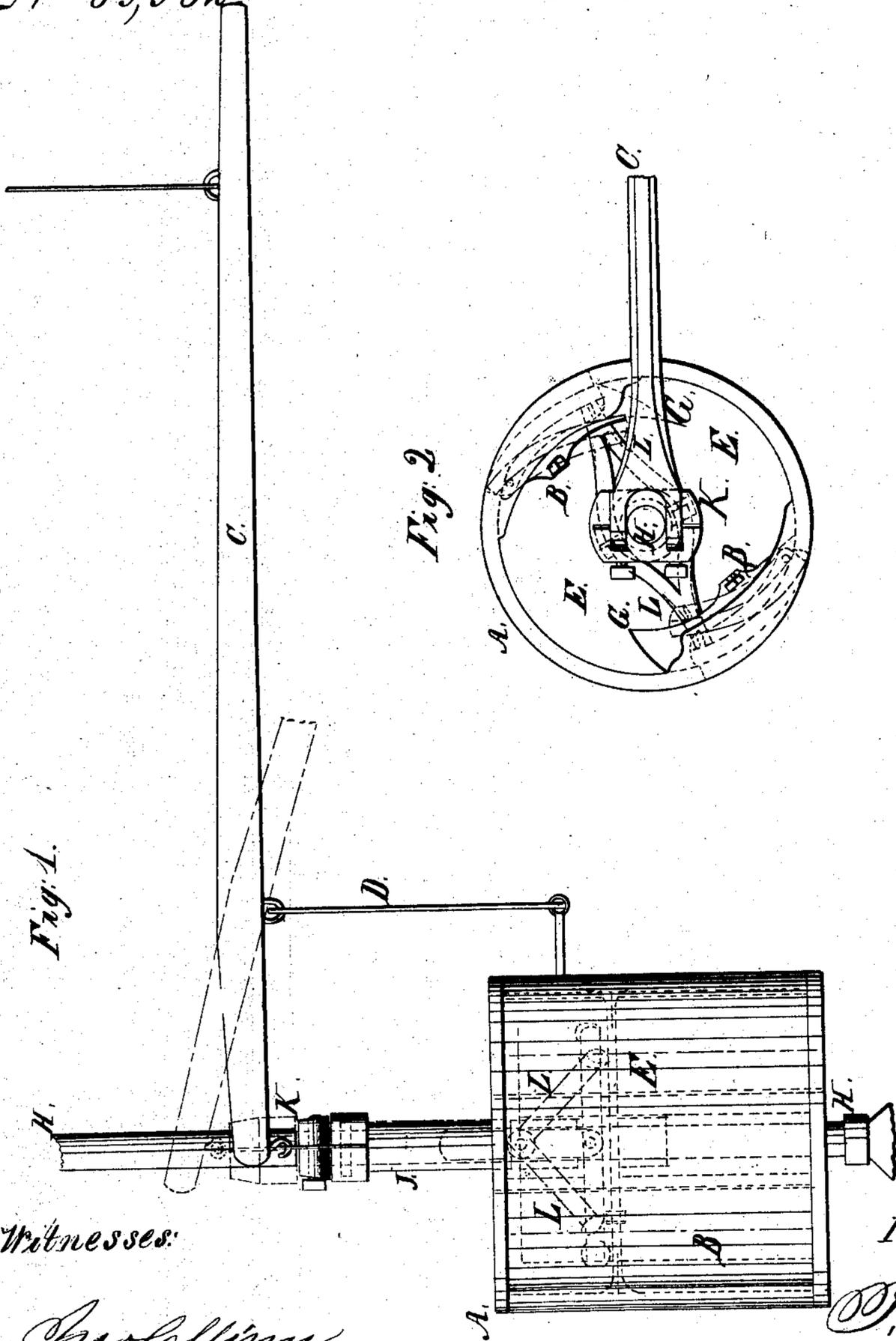


P. D. PIKE,

Water Wheel,

Patented Oct. 15, 1867.

N^o 69,932



Witnesses:

J. Rollins
A. C. Plunk

Inventor:

P. D. Pike
By his Atty
J. H. Reigart

United States Patent Office.

P. D. PIKE, OF STOWE, VERMONT.

Letters Patent No. 69,932, dated October 15, 1867.

IMPROVEMENT IN WATER-WHEELS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, P. D. PIKE, of Stowe, Lamoille county, State of Vermont, have invented an "Improved Water-Wheel and Gates Combined;" and I do hereby declare the following to be an exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 represents a side elevation of the wheel.

Figure 2, a top view.

The nature of my invention is a cylindrical water-wheel with a centre partition, having two apertures and two adjustable gates regulated by a lever. The water-wheel is intended to operate in a concave box in which the wheel operates.

A represents the cylindrical wheel, which is a reacting wheel designed to run in a case or box. The water surrounds the cylinder or wheel, and the ends are open for the final discharge of the water both at the top and bottom of the wheel. The water enters into the wheel, and propels the wheel as it enters through the gates B, the openings of the gates being regulated by the lever C. If the water propels a wheel by issuing out of it, either the wheel must be very large in proportion to the issues or much of the power is lost, there being too great motion of the water before acting upon the wheel. This wheel is propelled by the reaction upon the gates, the water after its action upon the gates escaping at each end of the wheel. The gate-beam or lever C has a double-jointed rod, D, attached to the under side of the beam and to the outside case, as a bearing or fulcrum. E is a centre partition, with an opening, G, at each side. The spindle H passes through the centre of the cylinder A. A tube, J, fits on the spindle H, and at the top of this tube is a collar, K, that revolves, and to which the beam C is attached for the purpose of raising and lowering the tube J. At the lower end of the tube J is a connecting-rod, L, one on each side of the tube, and pivoted to the tube, and attached by hinge or pivot to the gates B, so that by raising or lowering the beam C the gates are opened or closed.

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

The cylindrical water-wheel A with its centre partition E having two apertures G G, and two adjustable gates B B regulated by the lever C, when constructed, combined, and operating as herein described and for the purpose set forth.

P. D. PIKE.

Witnesses:

ASA RAYMOND,
COLUMBUS LOVEJOY.