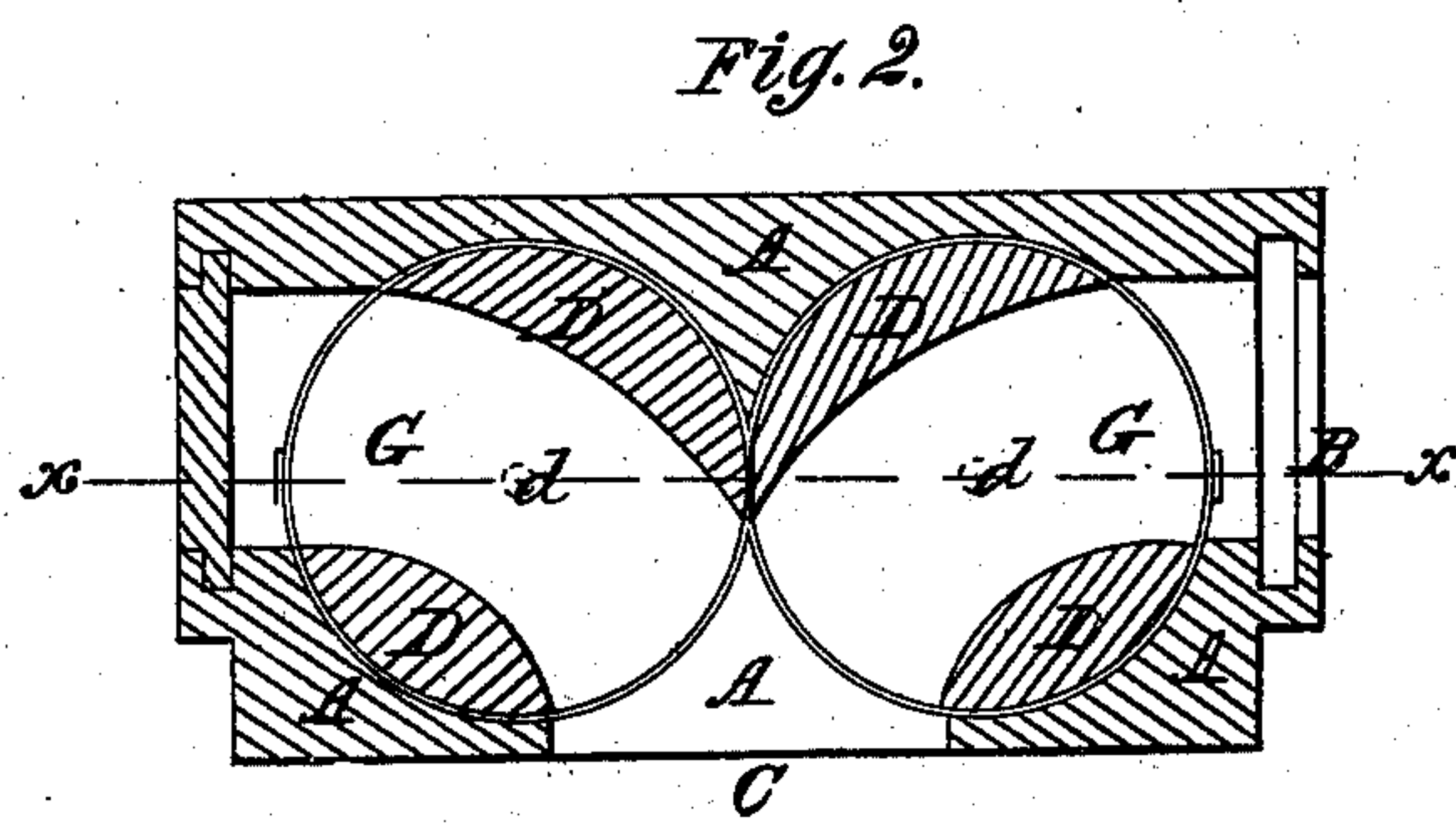
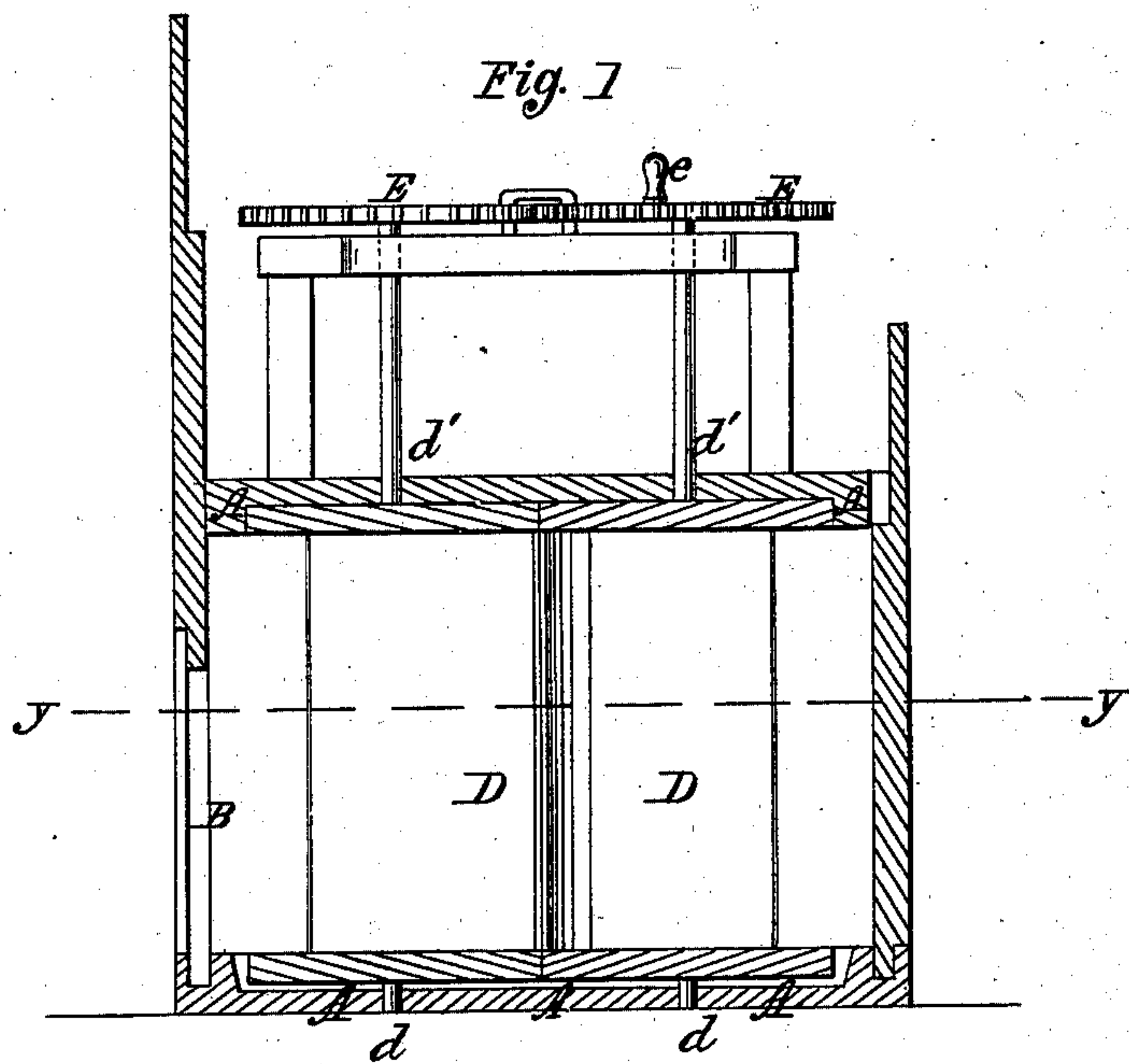


C. D. Blakeslee,
Water-Wheel Gate,
No. 68,692, Patented Sept. 10, 1867.



Witnesses:
Theo. Encke
J. A. Service,

Inventor:
C. D. Blakeslee,
per *M. M. L.*
Atty's.

United States Patent Office.

CHARLES D. BLAKESLEE, OF GRAND RAPIDS, MICHIGAN.

Letters Patent No. 68,692, dated September 10, 1867.

IMPROVED GATE FOR 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, CHARLES D. BLAKESLEE, of Grand Rapids, Kent county, Michigan, have invented a new and improved Water-Wheel Gate; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to an improved water-wheel gate, and consists of a curb of a size to correspond with the water-wheel and volume of water to be used, having apertures for the inlet of the water upon two cylindrical valves which revolve against each other, and are automatically operated by a ball-governor. In the accompanying drawings—

Figure 1 is a vertical section at line *x x* on the horizontal section, Figure 2, which is taken at line *y y* of fig. 1.

Similar letters of reference indicate corresponding parts.

A A are the curb, having apertures, B B, for the admittance of the water, and C for its conduct to the wheel. D D are two cylindrical valves or gates, revolving in axes, *d d'*, the shafts *d'* carrying the cog-wheels E, gearing in each other and operated by an ordinary ball-governor connected at *e*. The cylindrical valves D revolve against each other, the apertures G G (of any convenient form) corresponding with the apertures B B and C when the valves are open, solid portions D corresponding with said apertures B and C when the valves are closed. The cylinders revolving together against each other, mutually support each other and relieve their axes and bearings from the pressure of the water, revolving in consequence as freely in the water as out of it.

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

1. The cylindrical valves D, revolving against each other, and having apertures G G, substantially as and for the purposes described.

2. In combination with the above, I claim the curb A, provided with the apertures B and C, as and for the purpose specified.

The above specification of my invention signed by me this 22d day of April, 1867.

CHARLES D. BLAKESLEE.

Witnesses:

BENJAMIN A. HARLAN,
J. D. DILLENBACK.