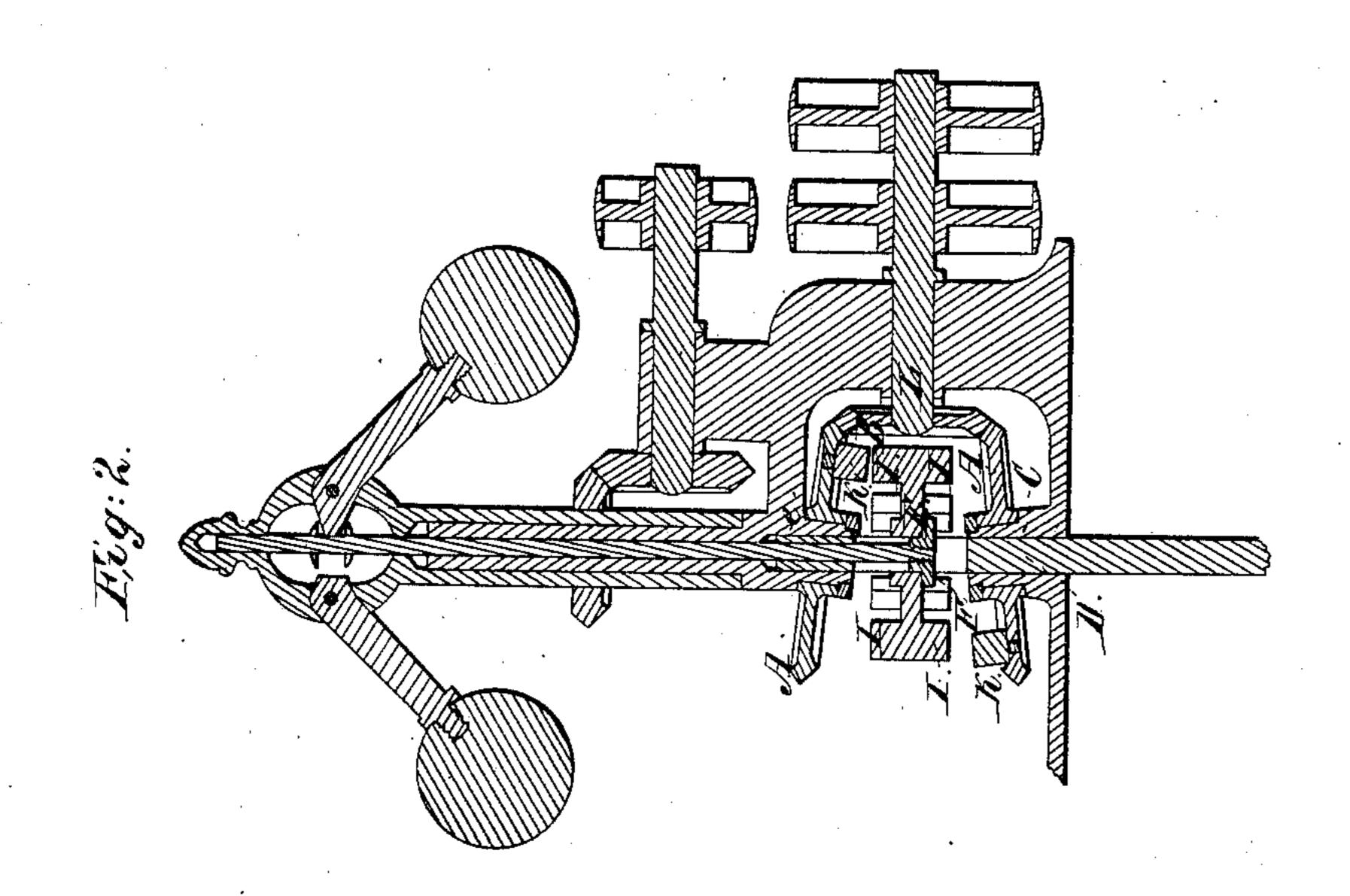
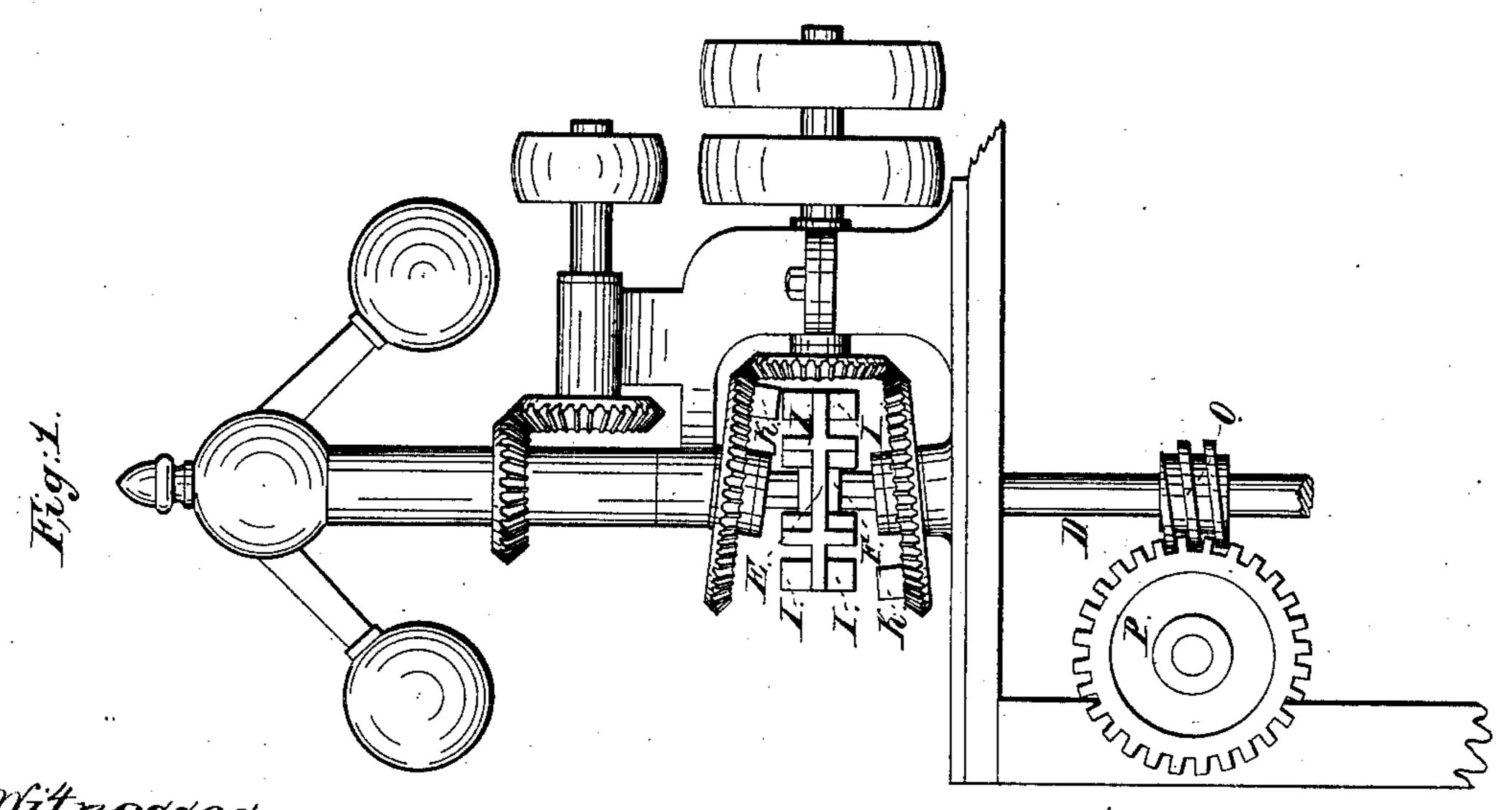
M. A.L. Kirk,

17962,343.

Patenteal Feb. 26,1867.





Invertor;

Anited States Patent Pffice.

WILLIAM A. L. KIRK, OF HAMILTON, OHIO.*

Letters Patent No. 62,343, dated February 26, 1867.

IMPROVEMENT IN GOVERNOR.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM A. L. KIRK, of Hamilton, Butler county, Ohio, have invented a new and useful improvement in Water-Wheel and Steam-Engine Regulators; and I hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of these specifications.

My invention consists in imparting to a water-wheel gate or steam-engine governor (or throttle) valve a variable, intermittent, and alternating movement, produced by the arrangement of the wheels and pinion, as shown in the accompanying drawings.

Figure 1 is a side elevation of a regulator embodying my improvement.

Figure 2 is a transverse section, showing more fully the manner of construction and arrangement of parts for the above-named object.

A A are bevel-wheels working in connection with the pinion B, and set on stationary study C C at an angle a little less than a right angle with the drive-shaft L. On the face of the wheels A A are driving-lugy K K, arranged so as to come in contact with similar lugs I I in the intermediate driver E, when the same is made to raise or lower by means of the governor-stem, which is attached to driver E by means of the key F. When the driver E is thus made to move, the shaft D, on which is keyed the worm O, revolves, giving an opening or closing movement to a valve or gate; and in consequence of the wheels A A being placed at an angle with the face of the driver E, a variable intermittent motion is imparted to the worm-wheel P, varying from a slight touch to an entire revolution of E, depending on the variation in the speed of governor, thus supplying the quantity of water to a water-wheel necessary to preserve a uniform speed.

What I claim, and desire to secure by Letters Patent, is-

The arrangement of two wheels A A, or their equivalents, on any angle varying from a right angle from the pinion B in which they work, the same being provided each with a lug, K K, working in connection with similar lugs I I I I on the intermediate driver E, substantially in the manner and for the purpose specified.

WM. A. L. KIRK.

Witnesses:

M. D. SEWARD,

AUGUST FRITZ.

Assorto Owens, Lane, Dyer V. Bo. of same place.