

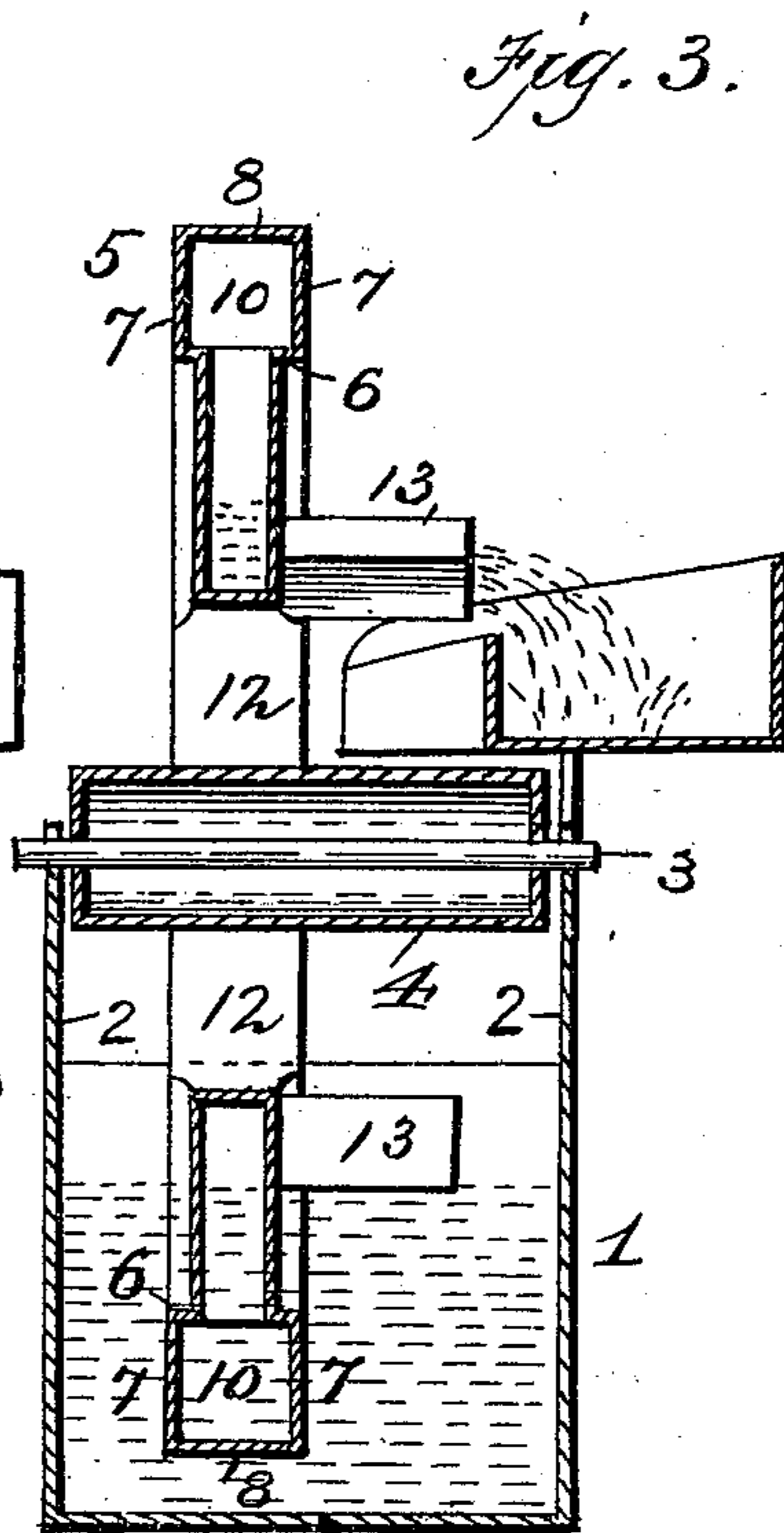
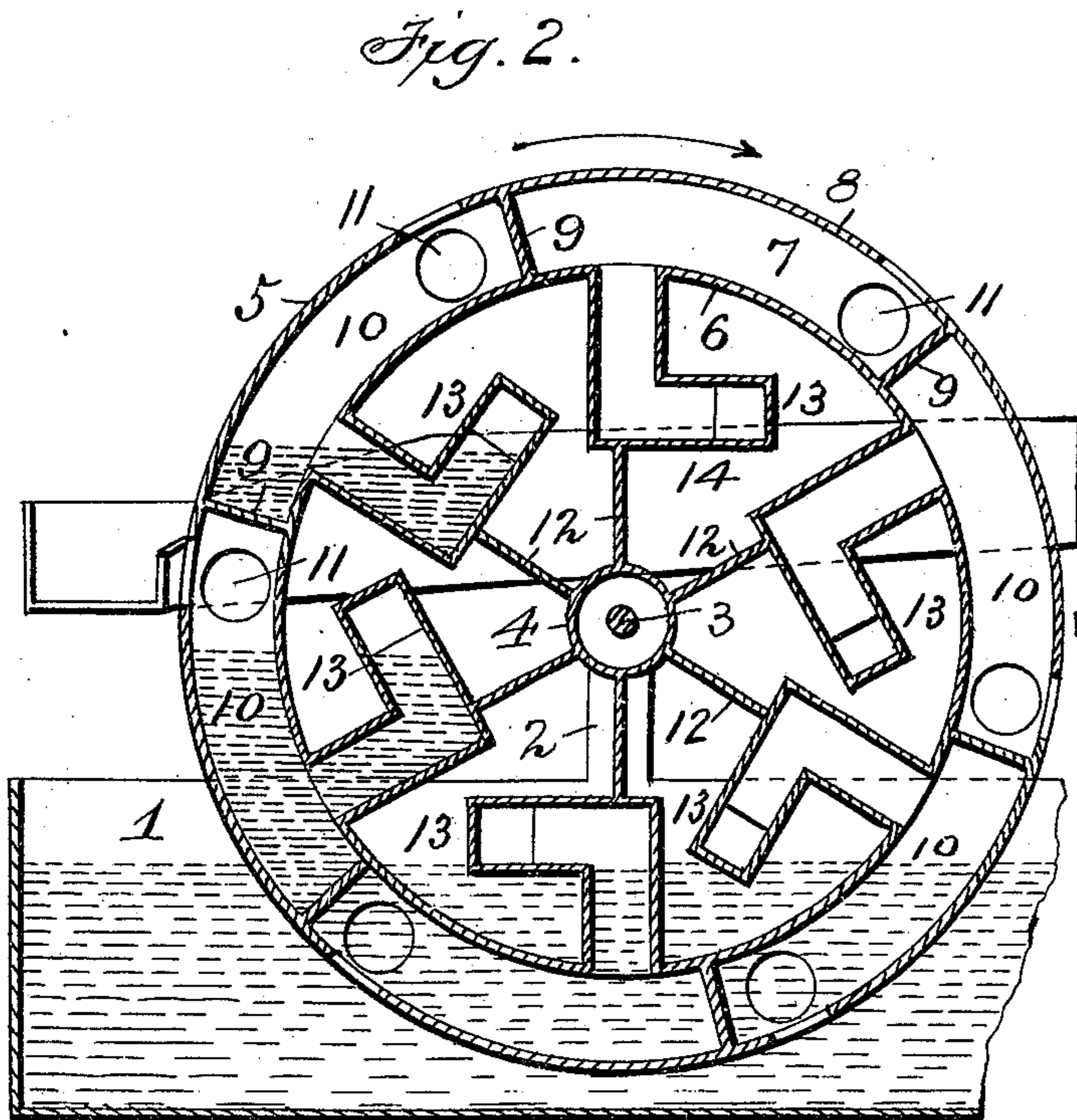
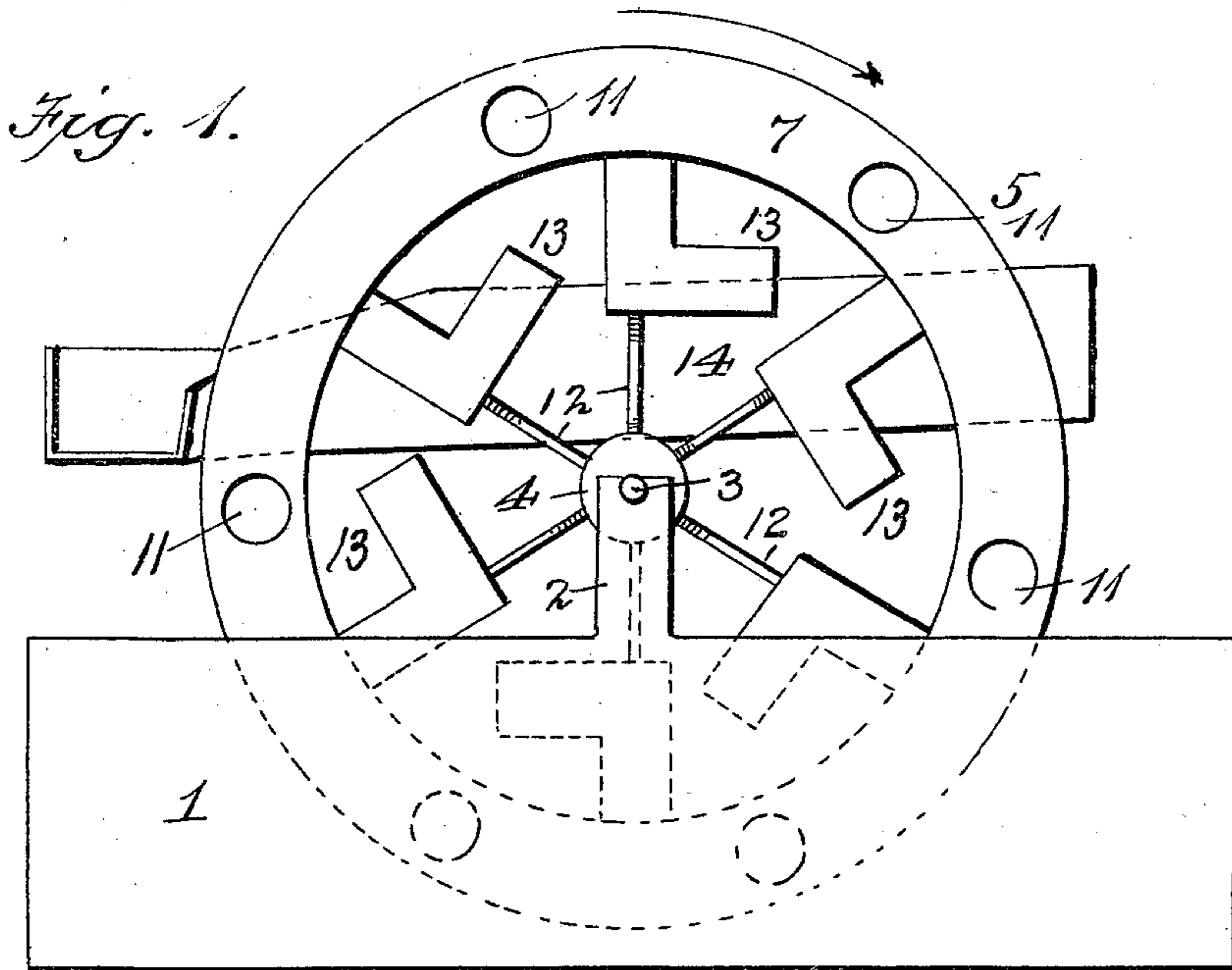
No. 640,141.

Patented Dec. 26, 1899.

J. A. LOMBAS.  
WATER ELEVATOR.

(Application filed Mar. 19, 1898.)

(No Model.)



Witnesses:  
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# UNITED STATES PATENT OFFICE.

JOSEPH A. LOMBAS, OF LOCKPORT, LOUISIANA, ASSIGNOR OF ONE-THIRD  
TO EDWARD C. CAFFERY, OF CYPRE MORT, LOUISIANA.

## WATER-ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 640,141, dated December 26, 1899.

Application filed March 19, 1898. Serial No. 674,538. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH A. LOMBAS, a citizen of the United States, residing at Lockport, in the parish of Lafourche and State of Louisiana, have invented new and useful Improvements in Water-Elevators, of which the following is a specification.

My invention relates to water-elevating apparatus; and its object is to provide an improved construction of the same by which large quantities of water can be quickly elevated with but a comparatively small expenditure of power.

The invention consists, essentially, of a rotatable wheel the rim of which is divided, by means of partitions, into a number of pockets or buckets having openings at the front end leading to the atmosphere, a number of hollow spokes connected with the rear ends of said pockets or buckets and the inner ends closed or made solid and secured to a hub, and elbows connected with said hollow spokes and extending laterally outward beyond the face of the wheel, as hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a water apparatus constructed in accordance with my invention. Fig. 2 is a central longitudinal section of the same. Fig. 3 is a central transverse section.

In the said drawings the reference-numeral 1 designates a water-receptacle provided with standards 2, in which is journaled a shaft 3, to which is secured the hub 4 of a water-elevating wheel.

The numeral 5 designates the rim of the wheel, comprising the inner circular ring or band 6, with which the spokes hereinafter described are connected, the side rings or bands 7 secured thereto, and the outer ring or band 8. It will thus be seen that said ring is hollow and is divided by partitions 9 into a number of pockets or buckets. 10. The side and outer rings or bands, near the front ends of said pockets or buckets, are formed with openings 11 for the admission of water.

The numeral 12 designates the spokes, the inner ends of which are solid and secured to the hub 4, while the outer ends are hollow and secured to the inner ring of the rim and communicate with said pockets or buckets near the rear ends thereof. Secured to the hollow portions of said spokes and communi-

cating therewith are elbows 13, the outer ends of which extend outwardly at right angles and project beyond the face of the wheel.

The numeral 14 designates a trough for receiving the water as it escapes from the pockets or buckets.

The operation is as follows: The lower part of the wheel dips into the water contained in the receptacle 1, and the shaft 3 is rotated by any suitable means, which in turn will rotate the wheel in the direction shown by the arrows. During the rotation of the wheel water will enter the openings at the front ends of the pockets or buckets and will run into the hollow spokes. When the spokes pass the horizontal center of the wheel, the water will escape from said spokes and buckets and will flow out of the ends of the elbows into the trough or other receptacle.

Having thus fully described my invention, what I claim is—

1. A water-elevator comprising a wheel with an annular hollow rim divided up into a plurality of chambers, each provided with one or more openings near one end to permit the influx of water, elbows provided near the opposite end of each of said chambers inside said hollow rim, and each provided with an inlet-opening connecting said elbow to said chamber and with an outlet-opening near the inner end of said elbow, substantially as described.

2. A water-elevator comprising a wheel with an annular hollow rim divided up into a plurality of chambers each provided with one or more openings near one end to permit the influx of water, elbows provided near the opposite end of each of said chambers inside said hollow rim, and each provided with an inlet-opening connecting said elbow to said chamber and with an outlet-opening near the inner end of said elbow, with a delivery-trough fast to said elbow and projecting therefrom beneath the delivery-outlet, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOSEPH A. LOMBAS.

Witnesses:

O. N. BERNOUDY,  
E. C. CAFFERY.