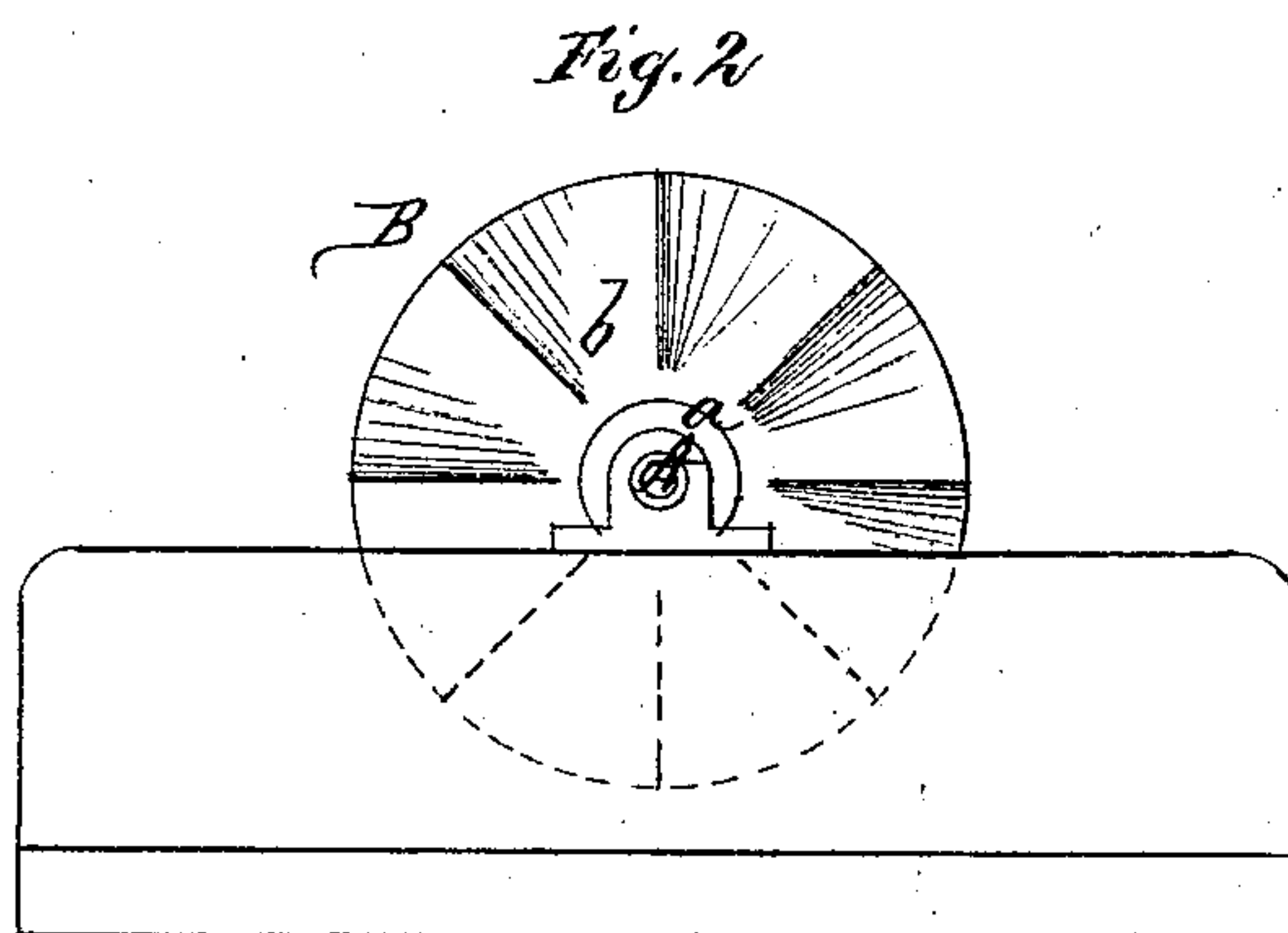
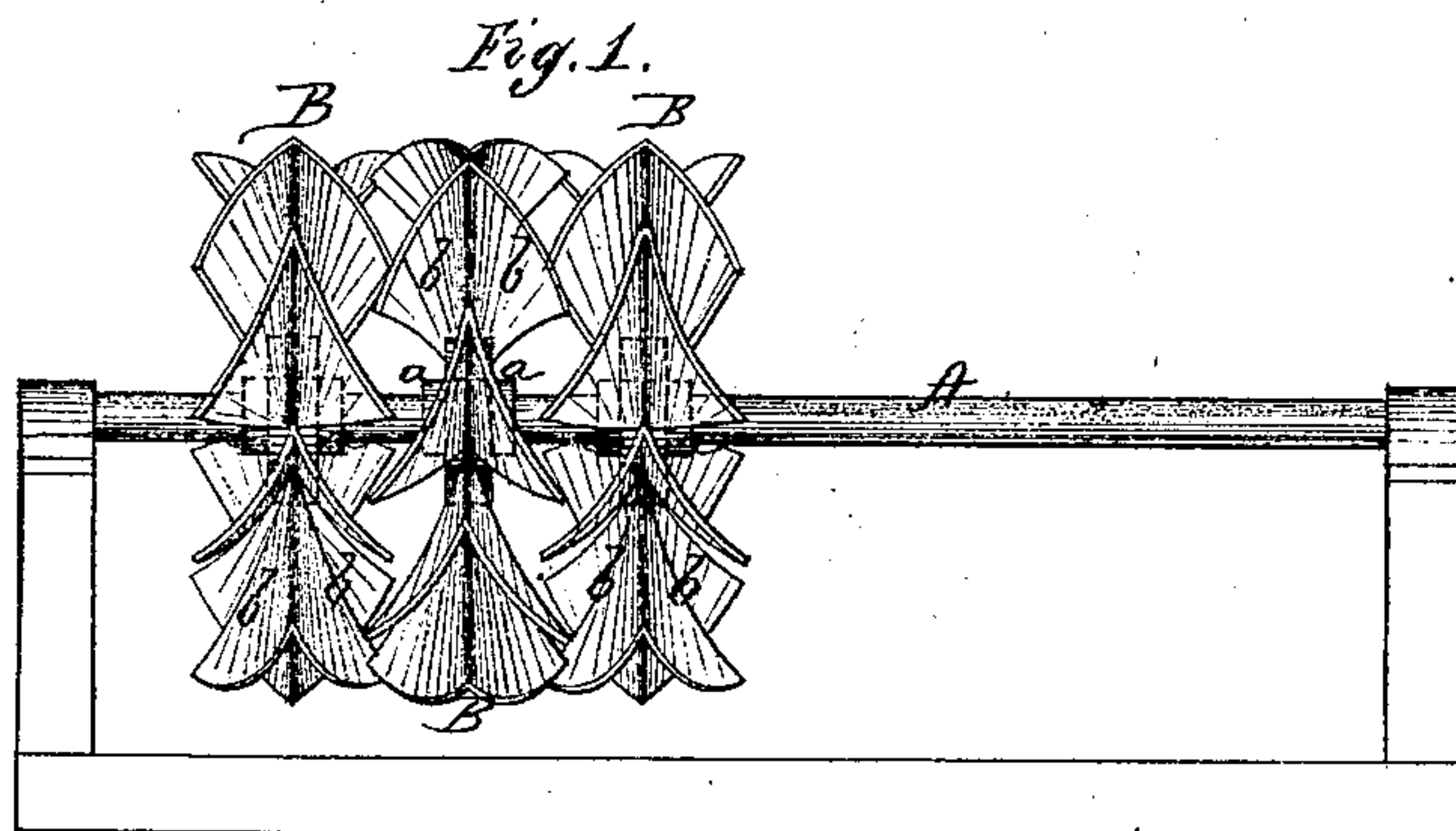


C. MOREHOUSE.

Improvement in Current-Wheels.

No. 114,959.

Patented May 16, 1871.



Witnesses  
John A. Ellis.  
J. V. White

Inventor.  
Clark Morehouse,  
Per  
J. H. Alexander  
Atty.

# United States Patent Office.

CLARK MOREHOUSE, OF WAYLAND, NEW YORK, ASSIGNOR TO HIMSELF  
AND JOHN W. DOUGHTY, OF SAME PLACE.

Letters Patent No. 114,959, dated May 16, 1871.

## IMPROVEMENT IN CURRENT-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, CLARK MOREHOUSE, of Wayland, in the county of Steuben and State of New York, have invented certain new and useful Improvements in Current-Wheels; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a current water-wheel, as will be hereinafter more fully set forth.

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 drawing, in which—

Figure 1 is a front view, and

Figure 2 is an end view.

A represents a horizontal shaft, having its bearings in a suitable frame, to be submerged in a stream; and upon this shaft is secured any desired number of wheels B B.

Each of these wheels is composed of two circular metallic plates, *b b*, secured together in the center between two collars, *a a*, and placed on the shaft A, the collars being keyed fast onto said shaft.

The plates *b b* are then cut at regular intervals from the outer edge to a suitable distance from the center, thus forming, as it were, a series of segments of equal size connected together in the center.

One edge of each of said segments, or more properly the two edges of the plates *b b*, at one edge of

each section, are then firmly joined together, while the other two edges of said plates, at the other edge of each segment, are bent outward, as shown in fig. 1, forming the buckets.

Any desired number of such wheels may be placed on the same shaft, according to the power desired.

The wheels B B, instead of being made of two circular plates, may be made of segmental plates joined together in the center.

The power to be obtained from a current by the use of wheels constructed and applied as herein set forth may be increased or diminished at pleasure, not only by the multiplication of wheels upon the shaft, but also by the adjustment of them with respect to the intervening spaces, since it is manifest that such wheels in close proximity, by disturbing the current and producing cross-currents, impair the efficiency of each other; hence neither the V-shaped buckets nor the key and groove is herein claimed as separately novel.

Having thus fully described my invention,

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

A series of wheels with V-shaped buckets, secured to a shaft so as to be readily adjusted upon said shaft, substantially as and for the purpose described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

CLARK MOREHOUSE.

Witnesses:

H. W. GARNSEY,

H. G. FAY.