

C.M. Miles. Water Wheel.

No. 118,546.

Fig. 1.

Patented Aug. 29, 1871.

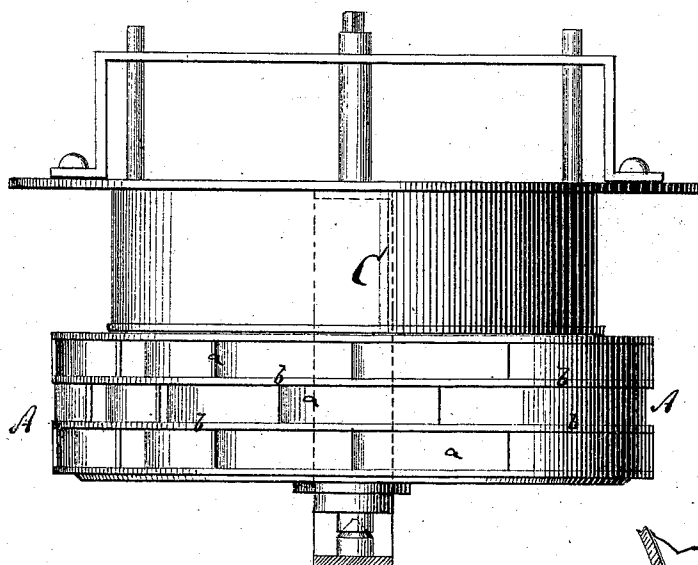


Fig. 2.

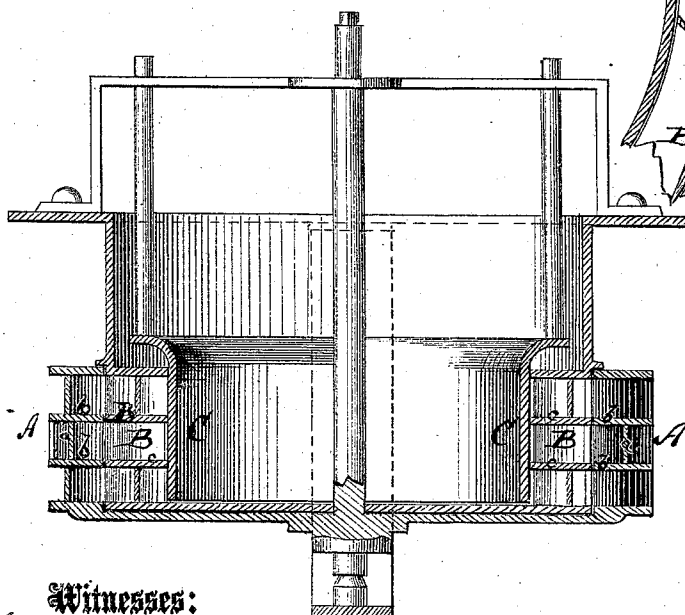
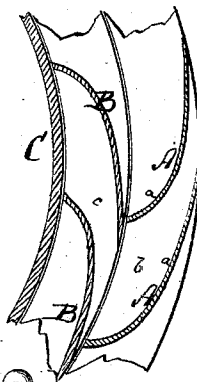


Fig. 3.



Witnesses:

John Becker.
Wm. H. C. Smith.

Inventor:

C. M. Miles

PER

Mumf
Attorneys.

UNITED STATES PATENT OFFICE.

CHARLES M. MILES, OF MILFORD, DELAWARE, ASSIGNOR TO HIMSELF AND SOLOMON MATTHEWS, OF SAME PLACE.

IMPROVEMENT IN WATER-WHEELS.

Specification forming part of Letters Patent No. 118,546, dated August 29, 1871.

To all whom it may concern:

Be it known that I, CHARLES M. MILES, of Milford, in the county of Kent and State of Delaware, have invented a new and Improved Water-Wheel; 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 drawing forming part of this specification, in which—

Figure 1 represents a side view of my improved water-wheel. Fig. 2 is a vertical central section of the same. Fig. 3 is a detail horizontal section of a portion of the same.

Similar letters of reference indicate corresponding parts.

My invention consists in improving turbine wheels, as hereinafter fully described and subsequently pointed out in the claim.

A in the drawing represents my improved water-wheel, composed of buckets *a a*, of suitable shape and arrangement. B is the guide-chute, arranged within the wheel; and C, the vertically-adjustable gate within the chute. The wheel and chute are both divided into two or

more stories or sections, one above the other, by means of horizontal partitions *b* and *c*, respectively.

The gate can be lowered to open only one story, or two or more, according to the head of water at disposal, and in each case the chutes and wheel will operate as one perfect apparatus, the upper parts thrown out of action not interfering the least with the lower in action.

The same invention is applicable to wheels having the chutes and gates, or either, on the outside.

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

The combination of wheel A *a* and guide-chutes B *b*, having horizontal partitions *b a*, with the adjustable gate C arranged centrally on the inside of wheel, and constructed with an outward flare at the top, all as and for the purpose specified.

CHARLES M. MILES.

Witnesses:

W. F. REVILL,
I. HALSTON.