

A. Baker,
Water Wheel,
No 3,279, Patented Sept. 23, 1843

Fig. 1.

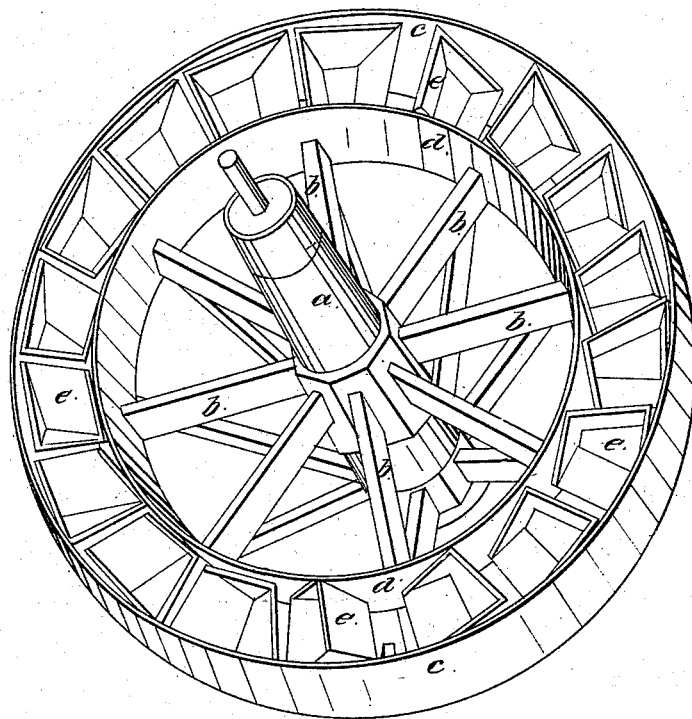
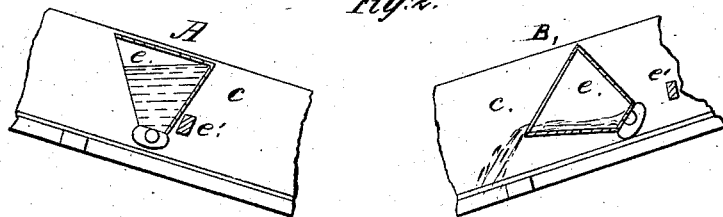


Fig. 2.



UNITED STATES PATENT OFFICE.

ABRAHAM BAKER, OF DALTON, OHIO.

INCLINED WATER-WHEEL.

Specification of Letters Patent No. 3,279, dated September 23, 1843.

To all whom it may concern:

Be it known that I, ABRAHAM BAKER, of Dalton, in the county of Wayne and State of Ohio, have invented a new and Improved
5 Water-Wheel; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification, in which—

10 Figure 1, represents a general view of the wheel; Fig. 2, a section.

The nature of my invention consists in forming an inclined wheel with movable buckets in the rim so as to receive the water at its highest point and discharge it at the
15 lowest by which I am enabled to use a wheel of much larger diameter in a given fall than can be done with an overshot wheel.

To a stout shaft (*a*) I affix any convenient
20 number of arms (*b*) and firmly brace them; around the outer ends of these arms a broad rim (*c*) is fastened which projects above the face of the wheel and inside of it another rim (*d*) is attached to the arms con-
25 centric with the first named one (*c*) and of the same width between these two rims a series of buckets (*e*) are suspended constructed of any suitable material the ends

of these are somewhat in the form of a trapezium the inner end being smaller than
30 the outer one so as to conform to the radii of the circle; they are hinged on a rod that runs across from one rim to the other under their bottom.

The wheel thus constructed is placed at
35 an angle of about 30°. On the rims are placed studs (*e'*) forward of the supporting rod which keeps the bucket upright while going down and thus prevents its losing
40 water (see section A, Fig. 2,) but after the bucket has passed the lowest point it can fall back and the contents delivered; this is shown at B, Fig. 2.

Having thus fully described my invention what I claim as new therein, and for which
45 I desire Letters Patent is—

The combination of the buckets (*e*) contracted and operated as herein described with the inclined wheel in the manner and for the purpose substantially as herein de-
50 scribed.

ABRAHAM BAKER.

Witnesses:

HENRY BOURNE,
J. J. GREENOUGH,