A. B. COUCH.
Water-Wheel.

No. 216,382. Patented June 10, 1879.

Fig. 1.

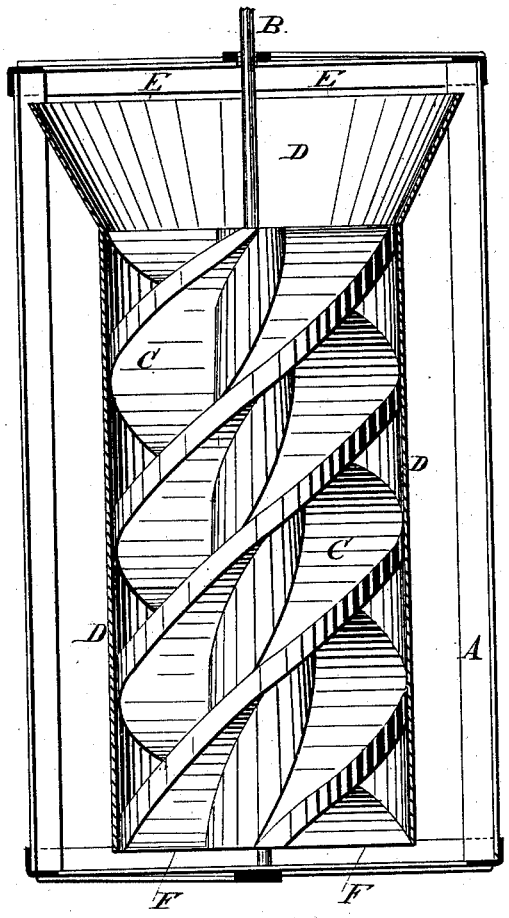
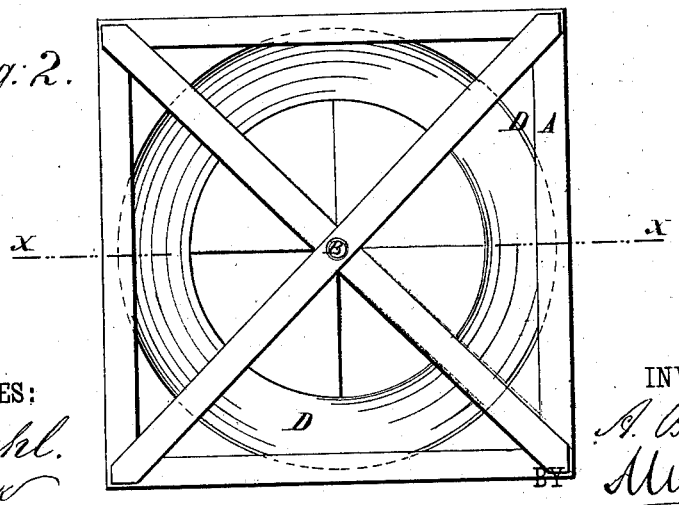


Fig. 2.



WITNESSES:
A. Schehl.
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UNITED STATES PATENT OFFICE.

ALBERT B. COUCH, OF NEWNAN, GEORGIA.

IMPROVEMENT IN WATER-WHEELS.

Specification forming part of Letters Patent No. **216,382**, dated June 10, 1879; application filed December 13, 1878.

To all whom it may concern:

Be it known that I, ALBERT B. COUCH, of Newnan, in the county of Coweta and State of Georgia, have invented a new and useful Improvement in Water-Wheels, of which the following is a specification.

Figure 1 is a vertical longitudinal section of my improved water-wheel taken through the line *x x*, Fig. 2. Fig. 2 is an end view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to construct a water-wheel which may run perpendicularly, horizontally, or at any desired angle, and which shall be so simple of construction and so economical that it will be generally substituted, where a good head of water is easily obtained, for the expensive wheels now in use.

A is the frame which supports the wheel-shaft. It may be made of more convenient shape to suit necessary conditions, and be constructed of metal or wood.

B is the shaft to which the wheel is secured. C is the wheel, which may be made of any length and diameter, and with any desired pitch of screw. D is the case inclosing the wheel, and may also be constructed of any suitable material.

When the wheel is set in position and ready for work, the flowing water is let in at the upper or flange end E of the casing, and permitted to escape at the other end F.

The casing is fitted so closely to the wheel within it that it partakes of the motion of the wheel under a head of water, and revolves with great rapidity.

In order to communicate its motion to machinery or to utilize its power in the best way, I attach a cog-wheel or pass a belt around the casing D.

Water for giving motion to the machine may be introduced in any convenient manner, but care should be taken that it be not in such excess as to overflow greatly.

I am aware that a screw revolved with and in a case has been heretofore employed as a water-wheel; but

What I claim is—

A water-wheel whose case D revolves with a spirally-flanged shaft B in the frame A, and is arranged to receive the driving-belt, as and for the purpose specified.

ALBERT BRITTAIN COUCH.

Witnesses:

G. E. CAMP,

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