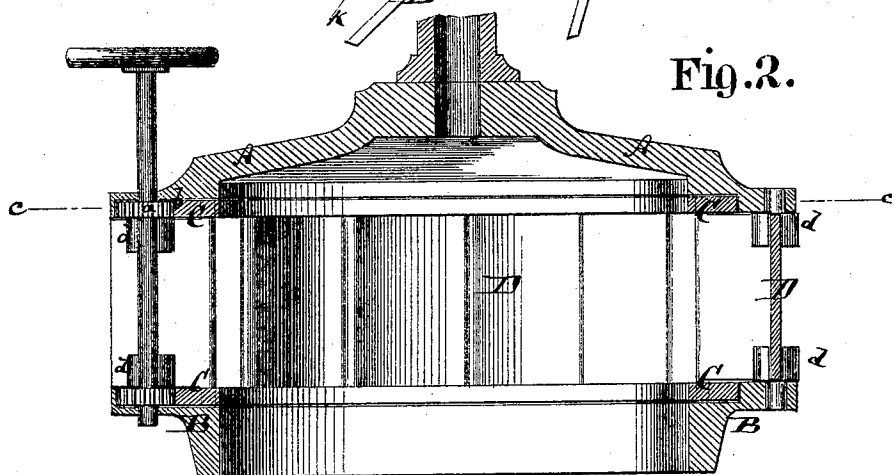
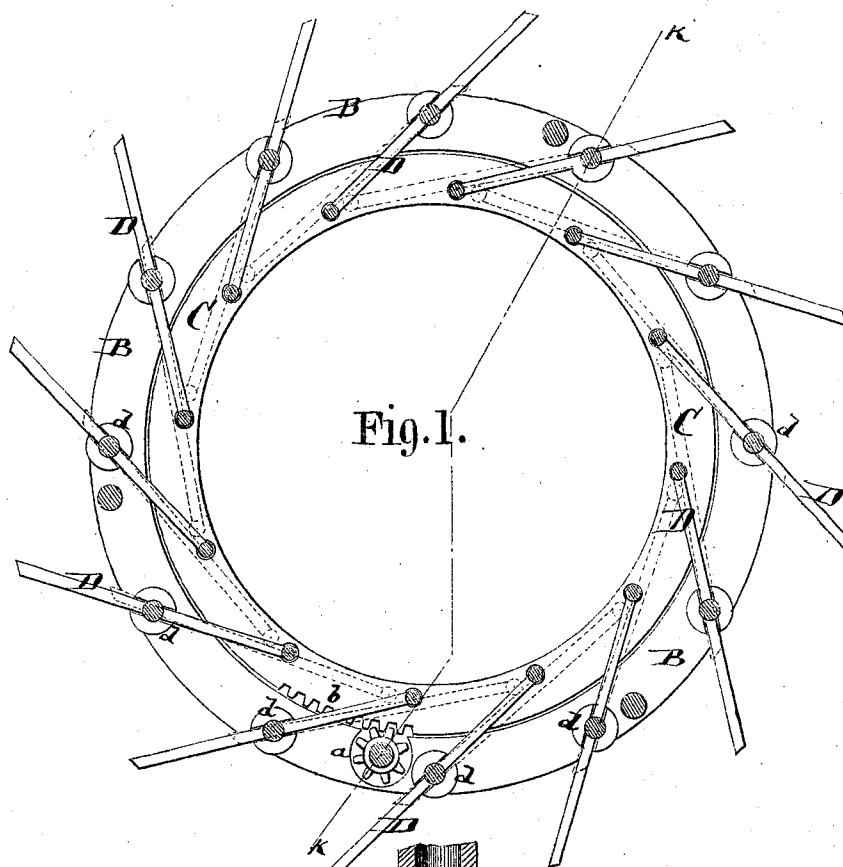


E. F. HUNT.
Gates for Water Wheels.

No. 124,273.

Patented March 5, 1872.



Witnesses:

Gustave Dietrich
Geo. W. Mabey

Inventor:

E. F. Hunt
PER *Wm. L.*
Attorneys.

UNITED STATES PATENT OFFICE.

EDWARD F. HUNT, OF CORNTON, VERMONT.

IMPROVEMENT IN GATES FOR WATER-WHEELS.

Specification forming part of Letters Patent No. 124,273, dated March 5, 1872.

Specification describing a new and useful Improvement in Gates for Water-Wheels, invented by EDWARD F. HUNT, of Cornton, in the county of Windham and State of Vermont.

Figure 1 represents a horizontal section of my improved water-wheel, the line *c c*, Fig. 2, indicating the plane of section. Fig. 2 is a vertical transverse section of the same on the line *k k*, Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to a new gate arrangement for water-wheels, with the object of making it convenient to reverse the gates for admission of water from either direction, and thus adapt the case and gates to right and left-handed wheels. The invention consists in the application to the stationary wheel-case of swivel-guides, in which the gates can slide when moved by the turning of the ring to which they are pivoted.

A in the drawing represents the crown-plate; B, the annular base of a stationary wheel-case. C C are the two rings to which the inner ends of the gates D D are pivoted. These rings are held to the parts A B, substantially as indicat-

ed in Figs. 1 and 2, and can be turned by pinion and segment *a b*, or other equivalent means. To the flanges of the parts A B are hung swivel-pins *d d*, which have forked heads to receive the upper and lower edges, respectively, (or one of them only,) of the gates D D. When, by turning the rings C, the inner ends of the gates are carried at a greater or less angle to the stationary flanges of A B, their outer parts will be guided and slide in the swivel-pins *d*, thereby giving the requisite change of position, as indicated by full and dotted lines in Fig. 1. It is quite evident that, by merely reversing the position of the pivots of the gates, their direction of position and motion can be also reversed to fit a right or left-handed wheel.

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

The pivoted gates D D, arranged in combination with the forked swivel-pins *d d*, substantially as herein shown and described.

EDWARD F. HUNT.

Witnesses:

FRANKLIN L. PIERCE,
NORMAN COBB, Jr.