

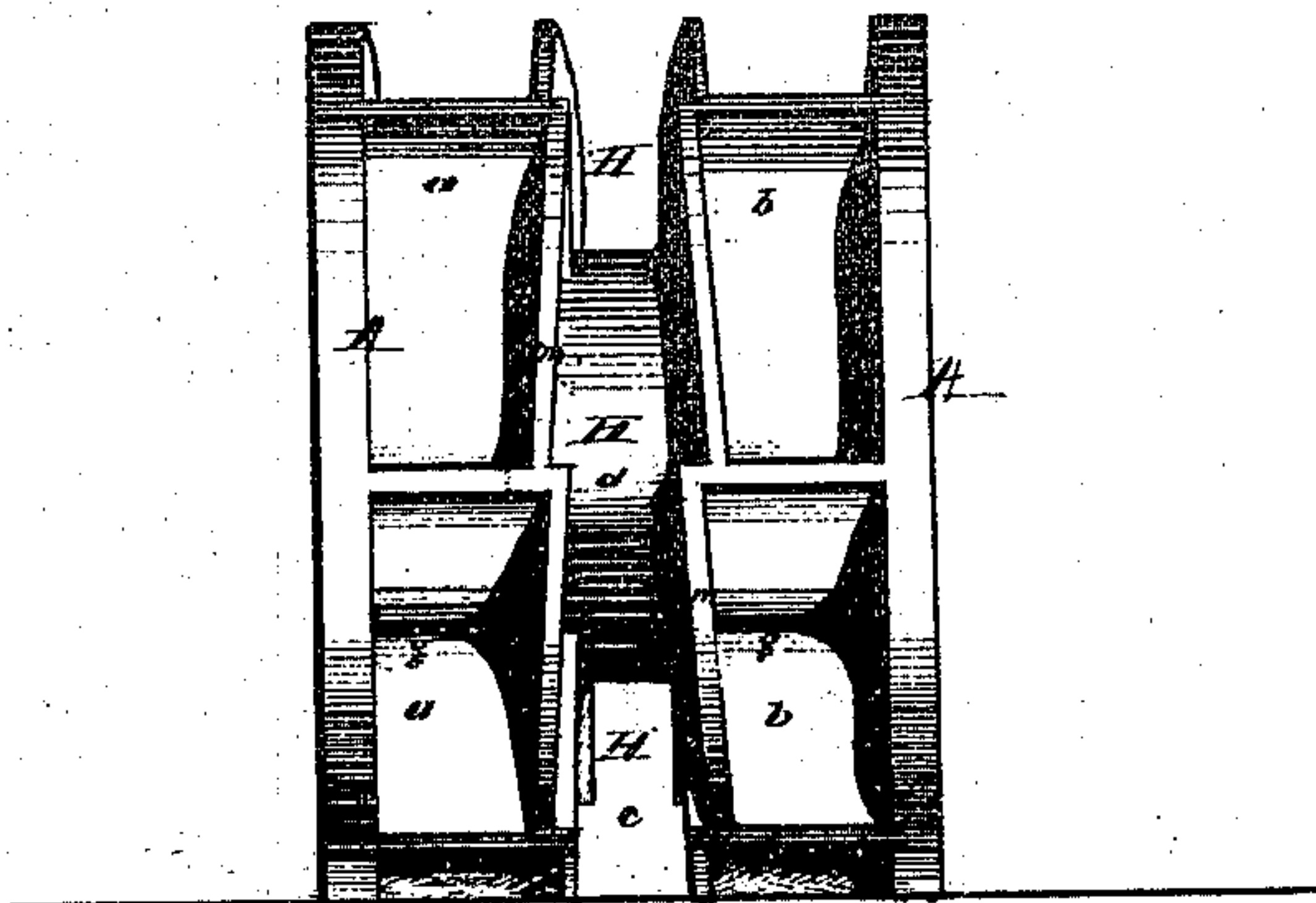
*A. C. Corpe,*

*Water Wheel.*

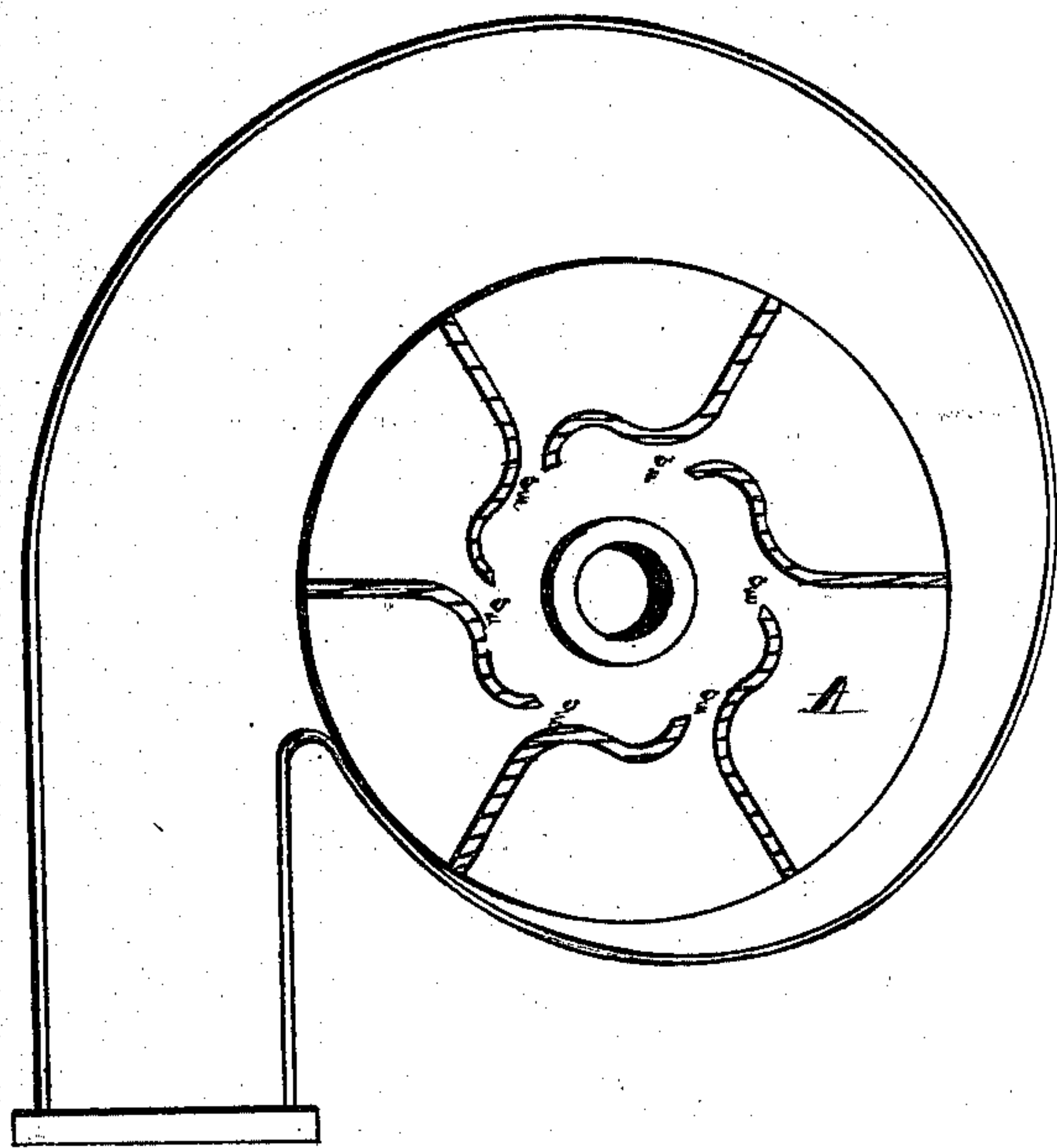
*No. 104,488.*

*Patented June 21. 1870.*

*Fig I*



*Fig II*



*Inventor*

*Alpheus C. Corpe*  
*by his attorneys*  
*Gardner & Hyde*

*Witnesses*

*M. Chapin*  
*E. V. Browne*

# United States Patent Office.

ALPHEUS C. CORPE, OF STAFFORD, CONNECTICUT.

*Letters Patent No. 104,428, dated June 21, 1870.*

## IMPROVEMENT IN WATER-WHEELS.

The Schedule referred to in these Letters Patent and making part of the same

I, ALPHEUS C. CORPE, of Stafford, Tolland county, State of Connecticut, have invented a new and useful Improvement in "Turbine-Wheels," of which the following is a description and specification.

### *Nature and Object of the Invention.*

My invention relates to certain improvements in the construction and arrangement of the buckets; and also further consists in an improved form of space between the sets of buckets, for the purpose of rendering the wheel more effective.

### *Description of the Accompanying Drawing.*

Figure I is an edge view of the wheel, showing the buckets and form of space between.

Figure II is a plan view of the wheel and case with the top removed.

### *General Description.*

A is the wheel, provided with two sets of buckets, *a a a* and *b b b*.

These buckets are so arranged as to form a space,

H, between them, of peculiar shape, as I will now describe.

Between each pair of buckets the space is formed, as shown, being larger at *c* than at *d*, as shown in Fig. I, the sides tapering toward each other from *c* to *d*.

The buckets are formed as shown in Fig. II, and have openings *g g g* arranged so as to discharge the water at the top and bottom of the wheel.

The arrangement of the space, between the buckets before described, is for the purpose of forming and utilizing a current around the wheel, and the water, in passing around this space, acts in a wedge-like manner upon the inclined sides *m m* of this space.

I claim as my invention—

The combination of two sets of buckets, *a b*, with the space H between them, constructed and arranged as set forth.

ALPHEUS C. CORPE.

Witnesses:

J. B. GARDINER,  
R. F. HYDE.