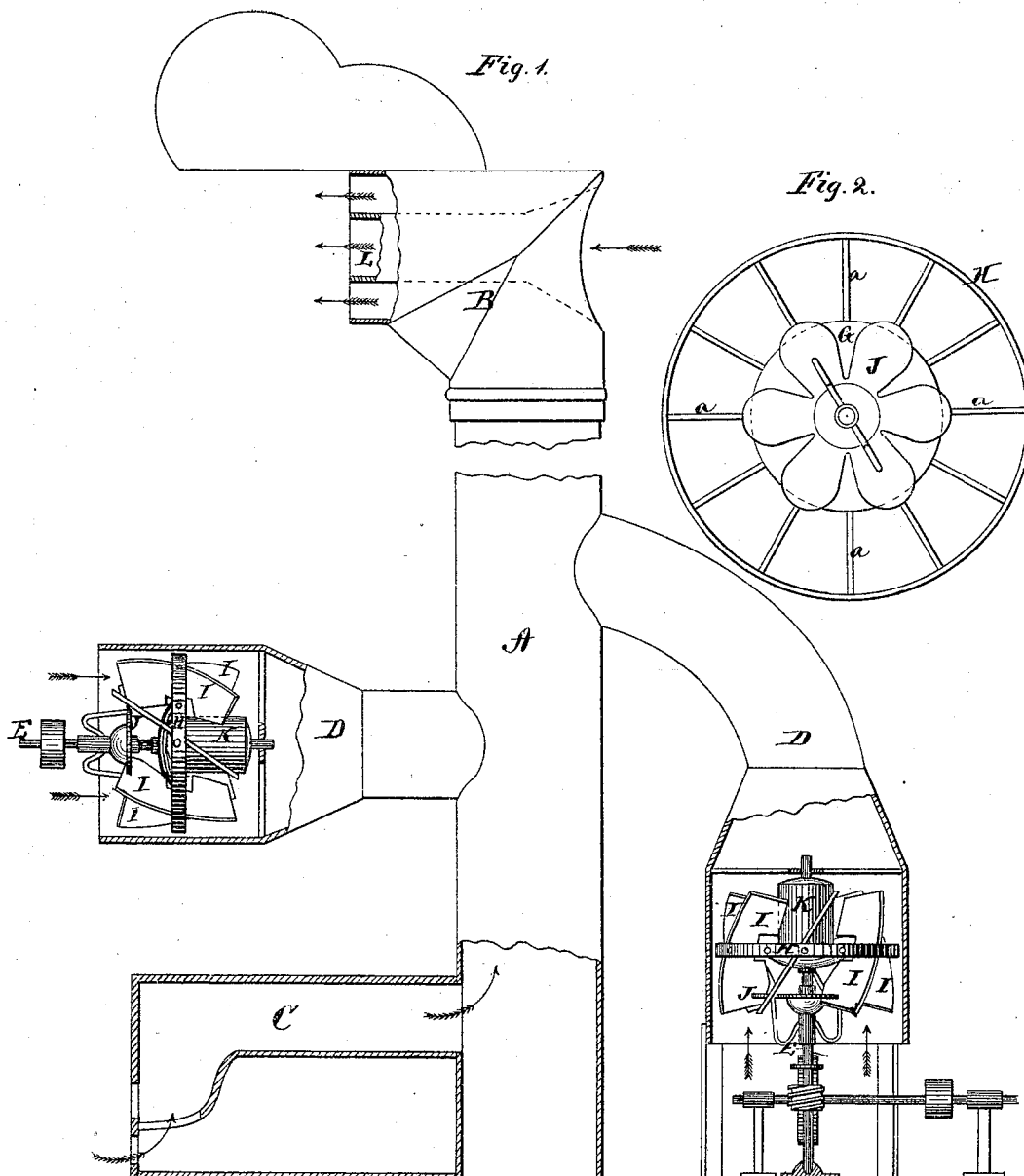


W. JONES.

Improvement in Atmospheric Motive-Powers.

No. 129,567.

Patented July 16, 1872.



Witnesses:

Henry N. Miller
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Inventor.

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UNITED STATES PATENT OFFICE.

WILLIAM JONES, OF NEW ALBANY, INDIANA.

IMPROVEMENT IN ATMOSPHERIC MOTIVE POWERS.

Specification forming part of Letters Patent No. 129,567, dated July 16, 1872.

To all whom it may concern:

Be it known that I, WM. JONES, of New Albany, in the county of Floyd and in the State of Indiana, have invented certain new and useful Improvements in Atmospheric Motive Power; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

My present invention is intended as an improvement upon the "atmospheric motive power" for which Letters Patent were granted to me March 5, 1872; and it consists in the construction and arrangement of the parts, as hereinafter described.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view, partly in section, of my device; and Fig. 2 is a bottom or outside view of the wheel with the wings removed.

A represents the chimney or stack, with the revolving elbow B on top. C is a furnace at the bottom of the stack, which may or may not be used as described in my patent above referred to. D D are pipes containing the wheels, and leading into the main chimney or stack. The wheel may either be placed vertically or horizontally, both plans being shown in Fig. 1. E represents the shaft of the wheel, placed in suitable journal-boxes so as to revolve freely. Upon this plate is secured a circular plate, G, from which extends a series of radiating rods or round arms, *a a*, connected at their outer ends by a circular rim, H. Upon all or some of these rods are hinged wings I I, extending a suitable distance above and below the circular plate G, their lower ends extending inward

into slots on a plate, J. Any number of wings may be used, as will be best suited for the diameter of the wheel, and by means of the plate J said wings may be placed at a right or left angle, to suit a forward or backward movement. The wings are moved simultaneously to regulate the speed or reverse the motion, at will. On top of the center plate G is a drum, K, the object of which is to reduce the air-space in the pipe or cylinder D, so that there may be a less quantity of air to relieve or exhaust. In addition to using this wheel for stationary purposes it may be used on a propeller-shaft for the propelling of vessels.

In working my device as already patented I find that the current of air passing around the elbow B at the top of the stack reacts or causes an eddy and retards the draught. To obviate this difficulty I insert in said elbow a tube, L, preferably funnel-shaped, which receives a current of air passing through it, and, acting with the outside current, prevents the reaction and increases the draught, making the wheel more effective.

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

The chimney A with revolving elbow B having interior pipe L, the pipe or pipes D with the wheel provided with shaft E, drum K, plate G, rods *a a*, rim H, hinged wings I I, and plate J, all the parts being constructed and arranged to operate substantially as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of April, 1872.

WM. JONES.

Witnesses:

JOHN W. NEVILLE,
HENRY T. WILLIAMS.