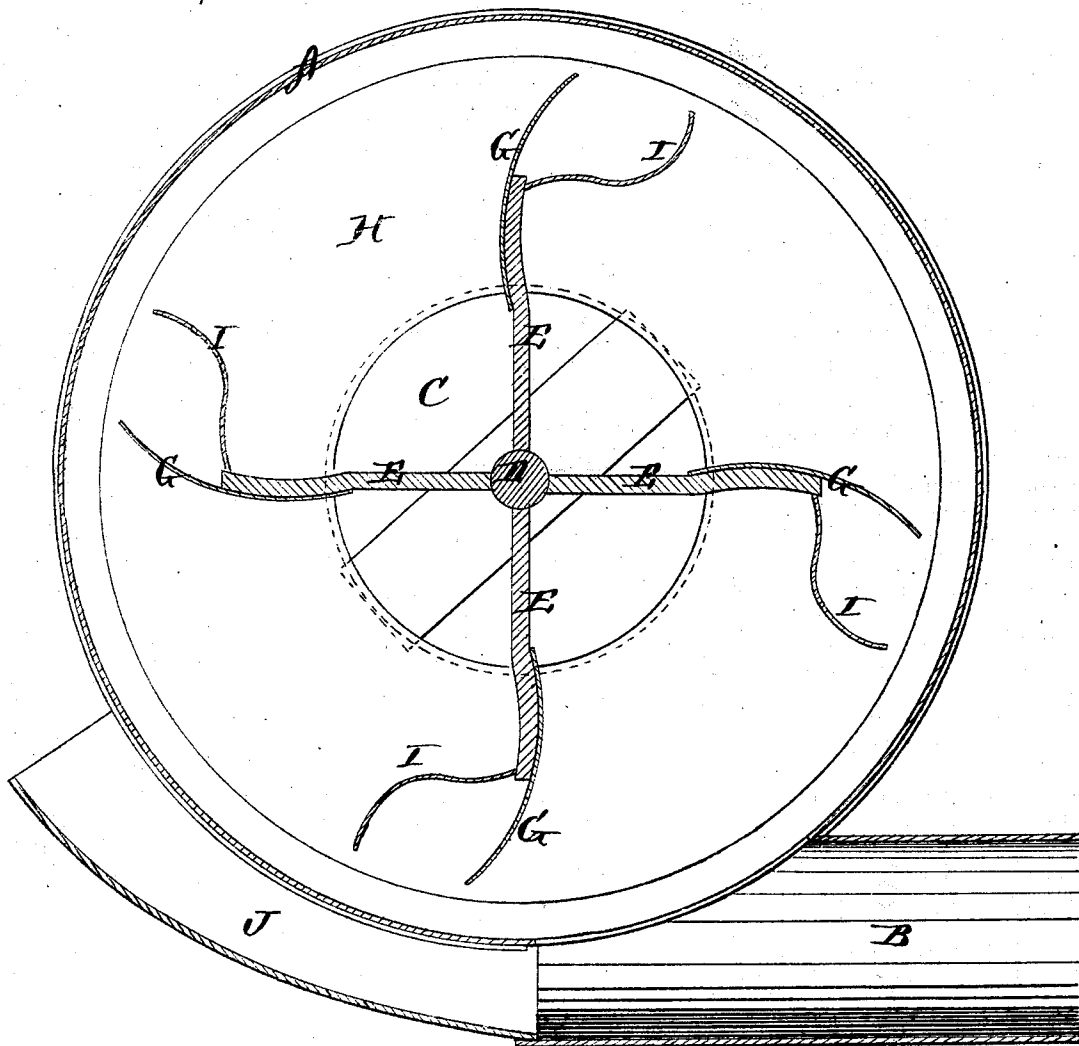


TIMOTHY ROGERS.
Improvement in Blowers.

No. 120,328.

Patented Oct. 24, 1871.



Witnesses:

*Jas. C. Hutchinson
 C. L. Evers*

Inventor

*Timothy Rogers
 per Alexander Miam*

Atty.

UNITED STATES PATENT OFFICE.

TIMOTHY ROGERS, OF FREDERICKTOWN, OHIO.

IMPROVEMENT IN BLOWERS.

Specification forming part of Letters Patent No. 120,328, dated October 24, 1871.

To all whom it may concern:

Be it known that I, TIMOTHY ROGERS, of Fredericktown, in the county of Knox and in the State of Ohio, have invented certain new and useful Improvements in Blowers; 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.

The nature of my invention consists in the construction and arrangement of a "blower," as will be hereinafter more fully set forth.

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, which represents a longitudinal vertical section of my blower.

A represents the casing, provided with an outlet-tube, B, and central openings C. Across these central openings are cross-bars to form bearings for a shaft, D, passing through the center of the casing. This shaft D is provided with arms E E, to the outer ends of which are attached wings G G, and on each side thereof is an annular disk, H, thus forming the wheel of the

fan or blower. To each wing G is attached a cup, I, constructed as shown in the drawing, so that when the fan revolves said cups will form a vacuum, or nearly so. J is an outside tube leading into the discharge-tube B at the point where said discharge-tube communicates with the inside of the casing. The cups I I forming a vacuum, as described, the air will rush in from the pipe J, and thus, it will be seen, a current of air is taken from the outside in addition to the central suction common to all fans of a similar nature.

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

The within-described blower, consisting of the casing A with central opening C and outlet-pipe B, fan D E G with cups I I, and the outside suction-pipe J, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of July, 1871.
TIMOTHY ROGERS.

Witnesses:

A. GREENLEE,
WILSON S. CUMMINGS.

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