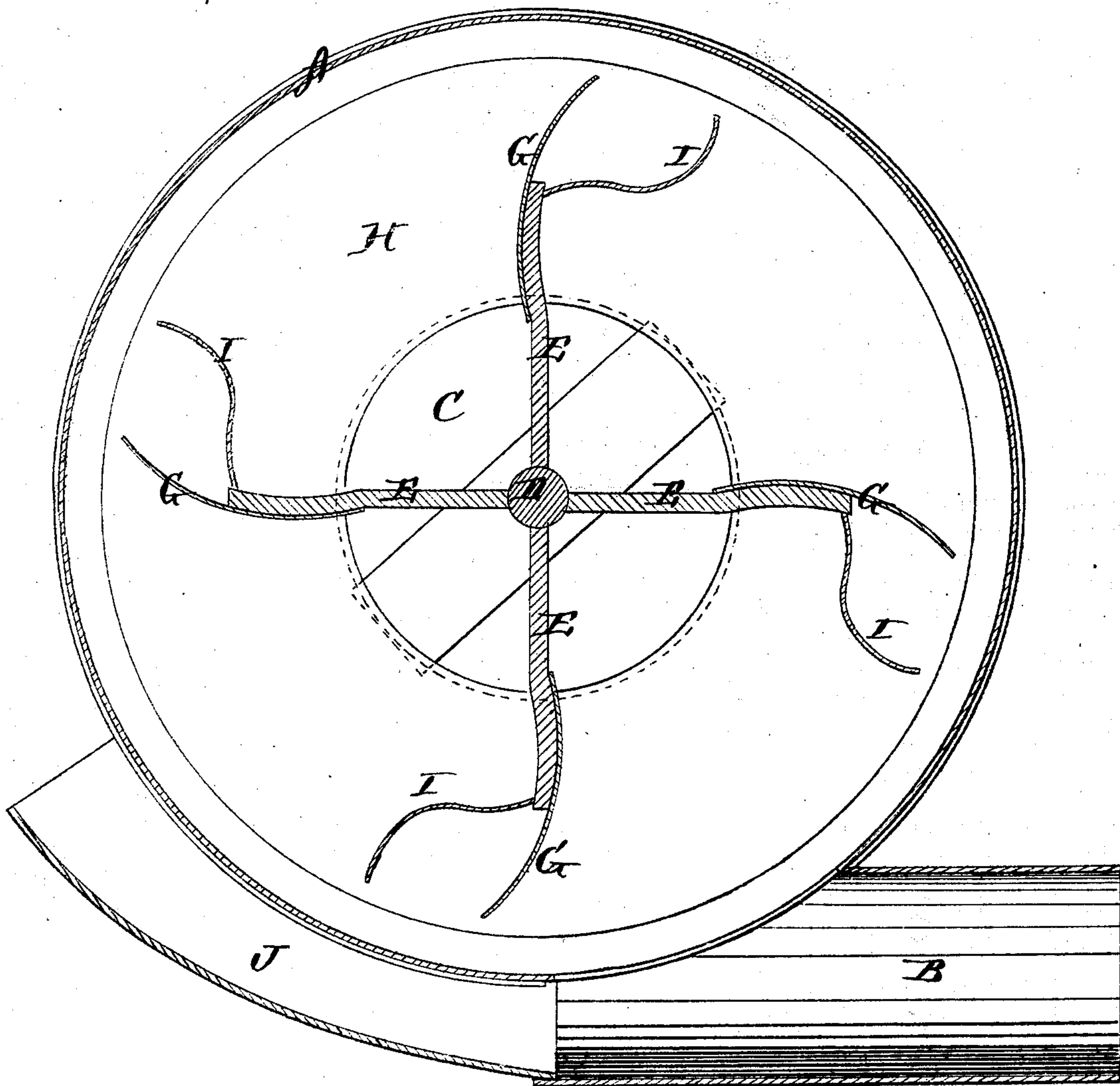


TIMOTHY ROGERS.
Improvement in Blowers.

No. 120,328.

Patented Oct. 24, 1871.



Witnesses:

Jas. C. Hutchinson
 C. L. Evert

Inventor

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 per Alexander Miamon

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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