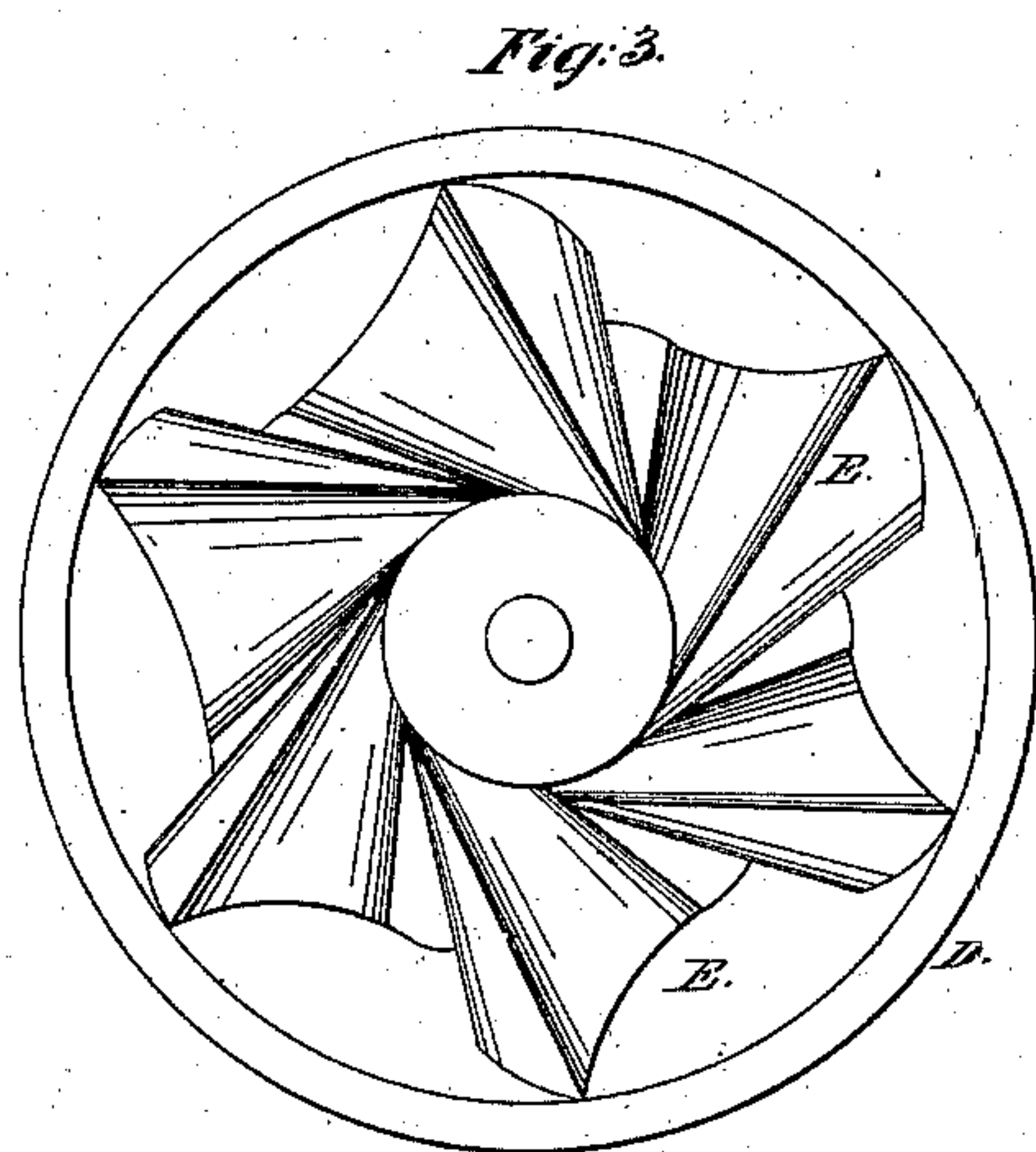
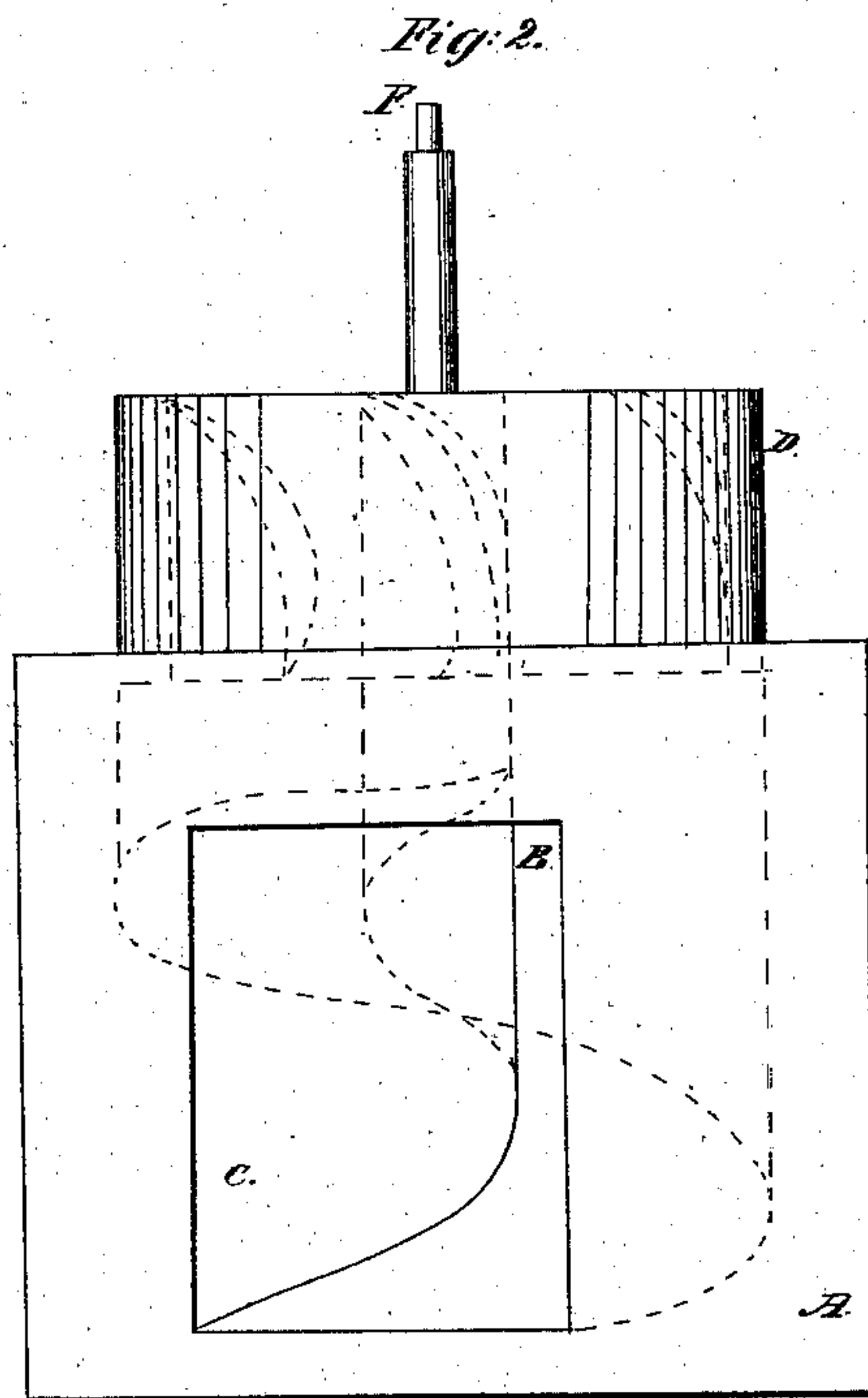
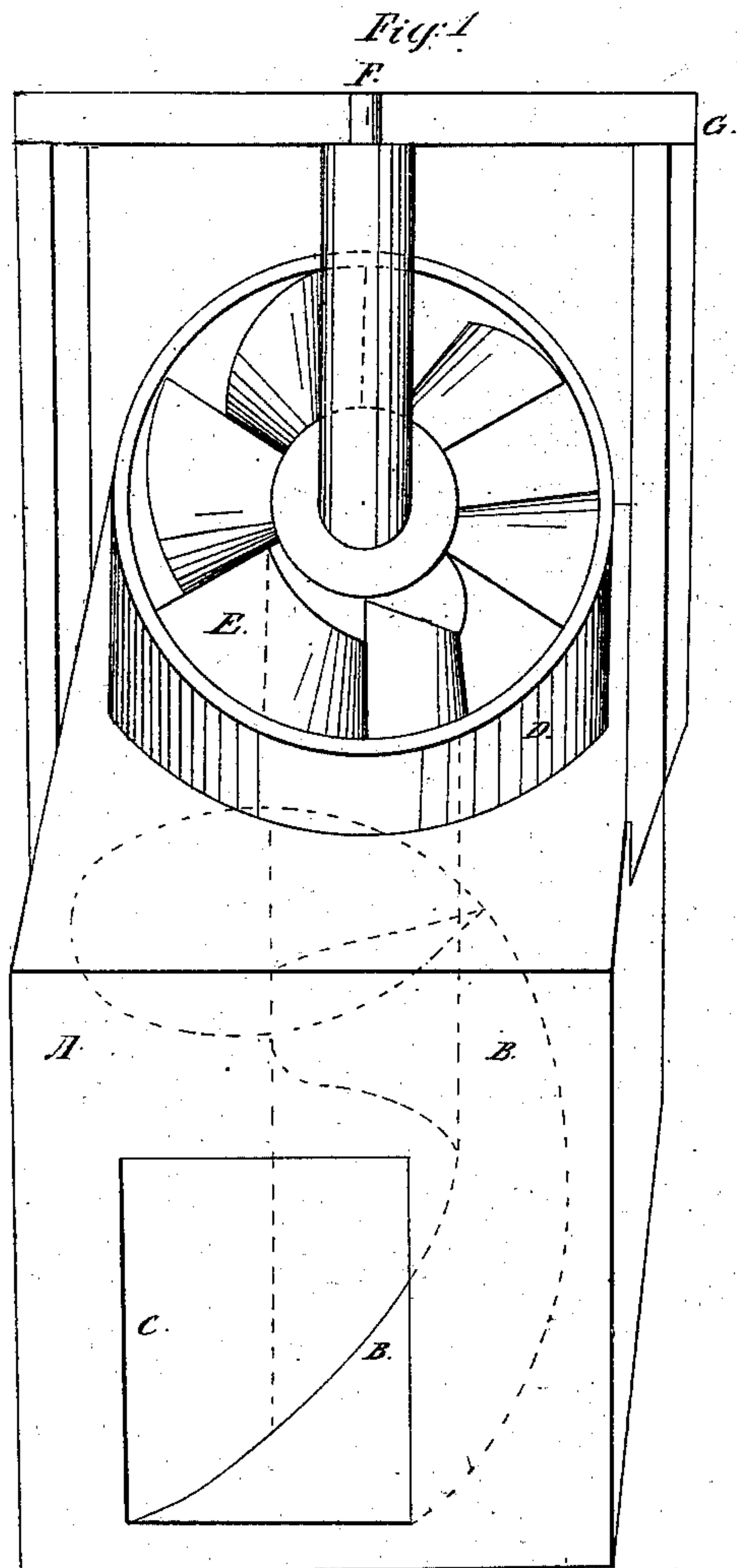


A. Andrews,
Water Wheel,

No 23,144.

Patented Mar. 8, 1859.



Witnesses:
Wm B Riegel
John H. Embich

Inventor:
Abraham Andrews

UNITED STATES PATENT OFFICE.

ABRAHAM ANDREWS, OF BERNVILLE, PENNSYLVANIA.

IMPROVED WATER-WHEEL.

Specification forming part of Letters Patent No. 23,144, dated March 8, 1859.

To all whom it may concern:

Be it known that I, ABRAHAM ANDREWS, of Bernville, Berks county, Pennsylvania, have invented an Improved Water-Wheel; and I do hereby declare that the following is a full 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.

A represents a square block having a spiral chamber B curving upward, through which the water flows, the water entering at the opening C and passing up and over the wheel, which is above the spiral chamber B; D, the

wheel, with buckets E curving downward, so that the water strikes the concavity of the buckets and passes off above between the buckets; F, the shaft, and G the cross stay or frame which supports the shaft or spindle F.

What I claim as my invention, and desire to secure by Letters Patent, is—

The curved concave buckets, in combination with the spiral chamber beneath, substantially as described.

ABRAHAM ANDREWS.

Witnesses:

J. FRANKLIN REIGART,
M. CARPENTER.