

W. KENDRICK.  
Evaporating Pan.

No. 54,173.

Patented April 24, 1866.

Fig. 1

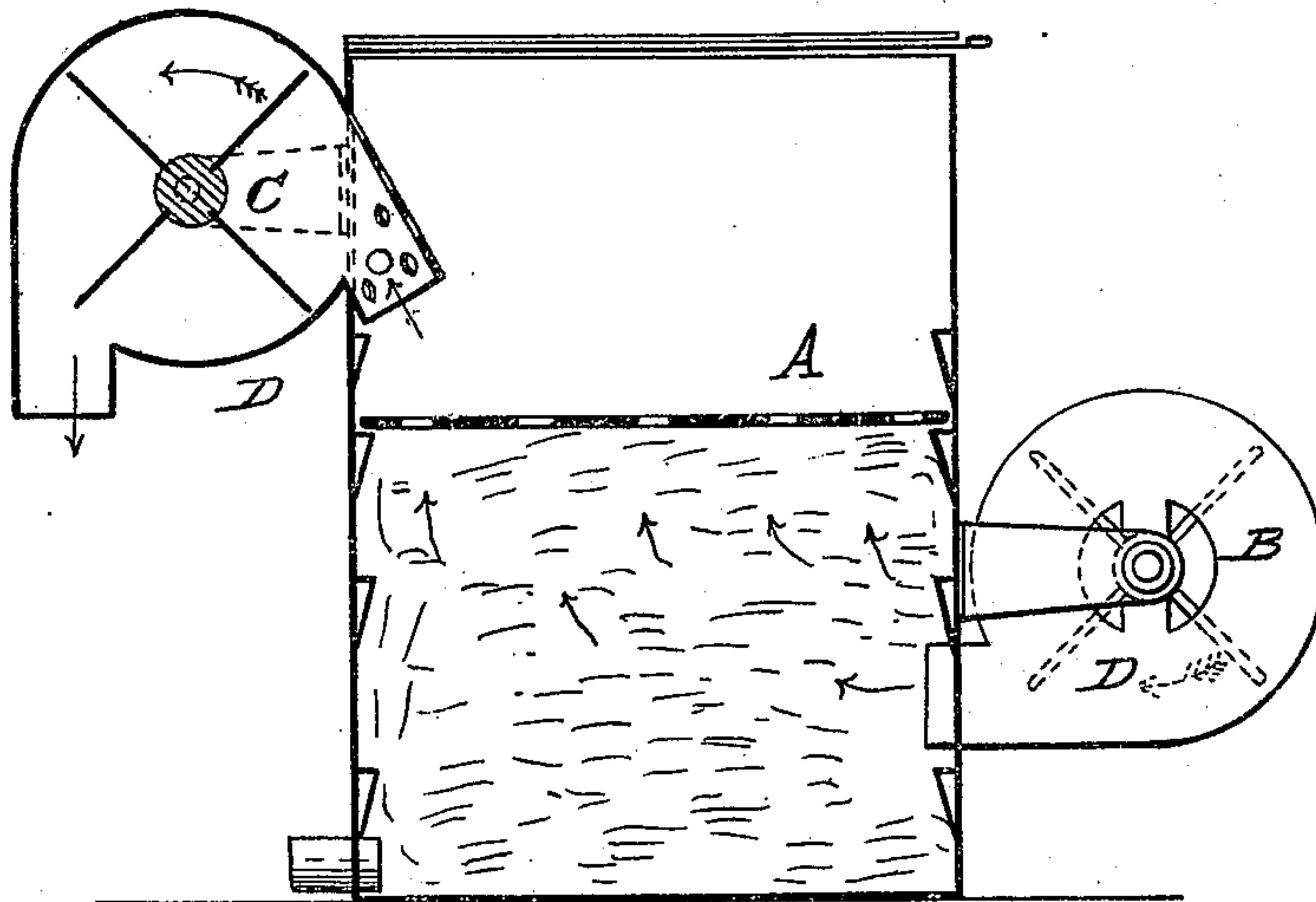
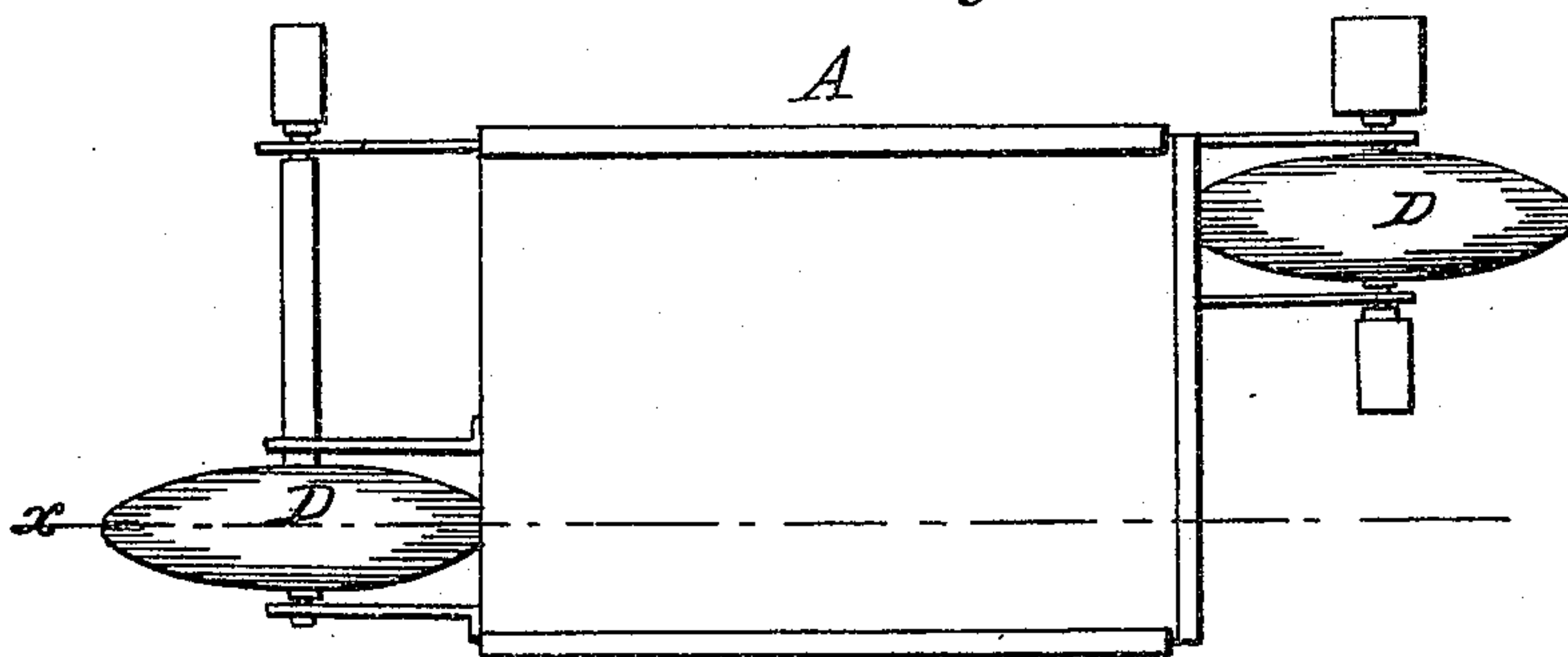


Fig. 2



Witnesses

J. P. Hall.  
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# UNITED STATES PATENT OFFICE.

WASHINGTON KENDRICK, OF NEW YORK, N. Y.

## IMPROVED EVAPORATING AND DRYING APPARATUS.

Specification forming part of Letters Patent No. **54,173**, dated April 24, 1866; antedated April 19, 1866.

*To all whom it may concern:*

Be it known that I, WASHINGTON KENDRICK, of the city, county, and State of New York, have invented a new and Improved Drying or Evaporating Device; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a side sectional view of my invention, taken in the line *x x*, Fig. 2; Fig. 2, a plan or top view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and improved means for evaporating moisture from all substances which require to be dried.

It consists in forcing a current of either cold or warm air through a chamber or receptacle by means of fans or their equivalents, as hereinafter set forth.

A represents a chamber or receptacle in which the substance to be dried is placed.

B is a blast-fan placed at the lower part of one side of the chamber or receptacle A, and C is a suction-fan placed at the upper parts of the opposite side of the same. These fans are

inclosed within suitable cases D D, which communicate with the chamber or receptacle A.

By means of these fans a current of air (hot or cold, as may be desired) is forced through the chamber or receptacle A and the contents of the latter deprived of all moisture, the air as it passes through A taking up or absorbing and carrying off the moisture.

This invention performs its work rapidly, and may be used for drying and evaporating all substances—such, for instance, as evaporating sugar, white lead, drying feathers, lumber, &c.

I do not confine myself to the employment or use of fans B C, for their equivalents may be used, such as bellows, pumps, &c.

I claim as new and desire to secure by Letters Patent—

The combination of the fans B C with the chamber A, arranged as described—that is to say, the fan B discharging a current of air into the chamber A, and the exhaust-fan C removing the air, together with the vapor of evaporation.

WASHINGTON KENDRICK.

Witnesses:

JAMES P. HALL,

WM. F. McNAMARA.