

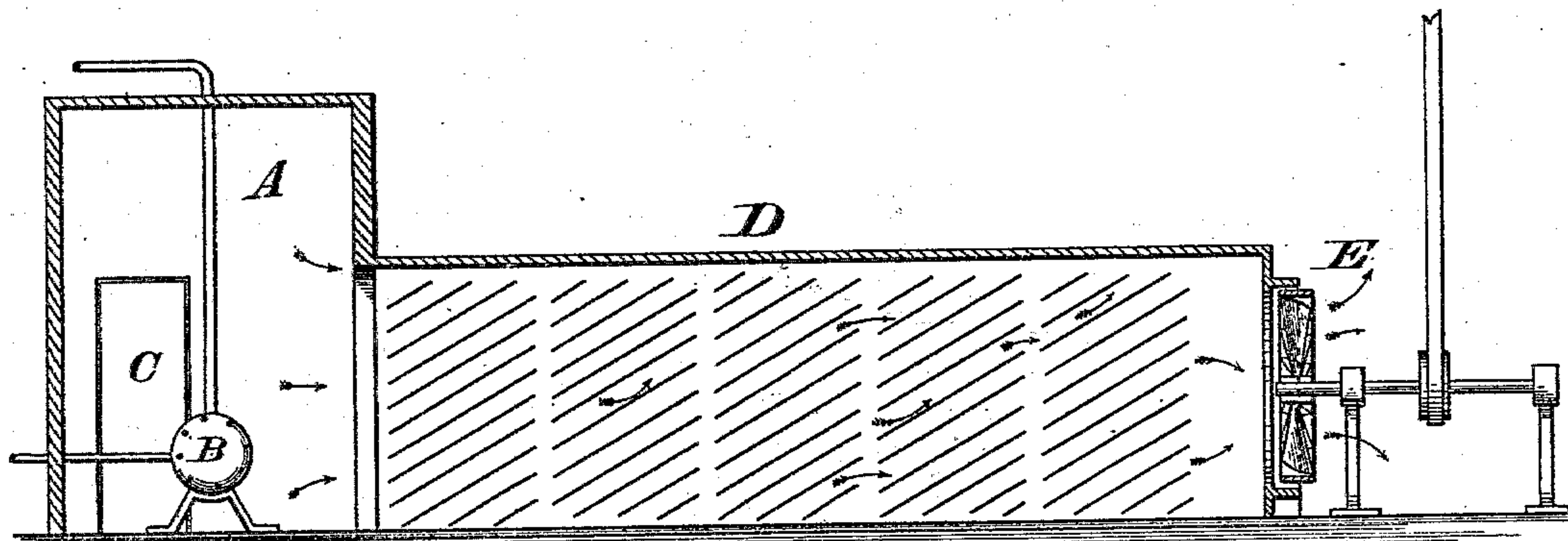
(No Model.)

W. SCHMOLZ.

FRUIT DRIER.

No. 288,124.

Patented Nov. 6, 1883.



WITNESSES.

William Bradford
Edwin Derby

INVENTOR.

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UNITED STATES PATENT OFFICE.

WILLIAM SCHMOLZ, OF SAN FRANCISCO, CALIFORNIA.

FRUIT-DRIER.

SPECIFICATION forming part of Letters Patent No. 288,124, dated November 6, 1883.

Application filed May 31, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM SCHMOLZ, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Fruit-Driers, of which the following is a specification.

The object of my invention is to provide a new and improved apparatus for drying fruit, in which a current of heated air is sucked or drawn horizontally through an oblong chamber containing fruit-holding trays set at an opposing angle to the advancing currents of heated air, and arranged in vertical tiers that are interspaced, as hereinafter described.

The drawing which is hereunto annexed, and which forms a part of this specification, represents a longitudinal sectional view taken through my improved fruit-drier.

A represents the furnace-room, in which I place any suitable heating apparatus; but I prefer to employ a steam-drum, B, as shown; and C is a doorway through which a fresh supply of air is received.

D is the drying-chamber, oblong in form, within which I place the fruit-containing trays set at an angle of about thirty-five or forty-five degrees to the advancing current of heated air. These trays are placed in inclined positions in vertical tiers, and the trays of one tier are interspaced with those of the preceding and succeeding tiers, so that the air in passing through the drying-apartment will meet with resistance and be of longer duration before it reaches the opposite end of the drier.

At the rear end of the drying-chamber I make a circular flanged opening, within which is set a fan-wheel, E, the shaft or axle of which is set in bearings F F, and is driven by a belt or other connection with any suitable power-producing mechanism, and when in operation will produce a partial vacuum in that end of the drying-chamber in which it is placed, and will suck or draw out the heated air, which, issuing from the furnace-room, impinges at a more or less obtuse angle upon the fruit placed upon the inclined trays, and thereby greatly accelerates the drying process by carrying off and out the moisture evaporated or thrown off during the passage of the heated air through the chamber.

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

In a fruit-drier, the combination, with the oblong drying-chamber D, provided with a series of drying-trays set at an angle to the air-currents and arranged in vertical interspaced tiers, as shown, of the furnace-chamber A, placed at one end of said drying-chamber, and the exhaust-fan E, placed at the opposite end, all substantially as and for the purpose described.

In testimony that I claim the foregoing I have hereunto set my hand and seal.

WILLIAM SCHMOLZ. [L. s.]

Witnesses:

WILMER BRADFORD,
C. W. M. SMITH.