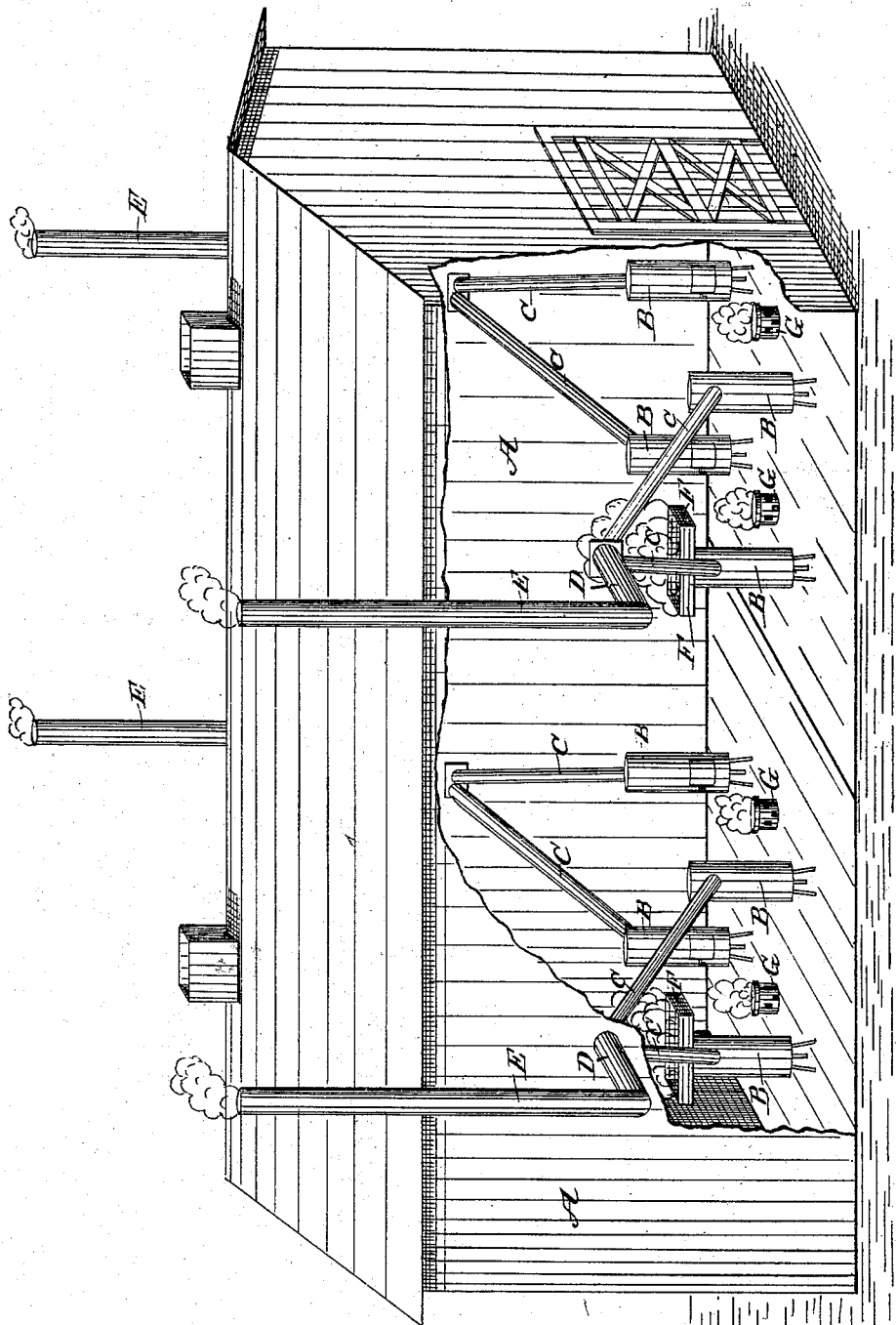


(No Model.)

J. H. FIZER.
TOBACCO DRIER.

No. 265,051.

Patented Sept. 26, 1882.



WITNESSES:

Chas. Beyer
C. Bedquison

INVENTOR:

J. H. Fizer
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UNITED STATES PATENT OFFICE.

JAMES H. FIZER, OF MILLERSBURG, KENTUCKY.

TOBACCO-DRIER.

SPECIFICATION forming part of Letters Patent No. 265,051, dated September 26, 1882.

Application filed April 26, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. FIZER, of Millersburg, in the county of Bourbon and State of Kentucky, have invented a new and Improved Tobacco-Drier, of which the following is a full, clear, and exact description.

This invention relates to an arrangement of heaters, whereby the room for hanging tobacco to dry in the barn is economized; and it consists in arranging the heaters at about equal distances on the barn floor and running the pipes in couples direct from the heaters to chimney-pipes in the sides of the barn, said chimney-pipes extending above the roof of the barn at some distance from its side to insure safety from fire.

Reference is to be had to the accompanying drawing, forming a part of this specification, which represents a perspective view of a tobacco-barn with a part of the side broken out, showing the arrangement of drying apparatus which I propose for facilitating the curing process.

A represents the barn, in which the tobacco is to be suspended overhead in the way it is commonly arranged for drying by the natural action of heat and air, the said barn being of any desired length and breadth, according to the required storage capacity.

B represents small sheet-iron heaters or furnaces, which I propose to arrange in a couple of rows, for a barn of ordinary width, along the floor from end to end, distributing them equally each way, and connecting them in couples by oblique pipes C to the horizontal pipe-section D, extending through the sides of the barn, and having a vertical section, E, outside and extending above the roof, the said pipes being arranged in this way to avoid the too great exposure to the heat of the tobacco that would be near the pipe if it extended directly upward from the heaters, and more space is gained in the barn for hanging the tobacco by passing the pipes D through the side of the

barn instead of through the roof. By reason of the inclined position of the pipes C more space is gained for hanging the tobacco than if the pipes were composed of two sections with an elbow, and the tobacco can be brought closer to the heaters without liability of burning it. This arrangement is also much cheaper, as it requires less pipe.

F represents pans to be distributed about the room and upon some of the heaters for creating steam to soften the dried tobacco and bring it to the proper condition for stripping, also to moisten the atmosphere and produce the soft summer heat favorable to the sweating process, and thereby materially shorten the period heretofore required for the sweating process.

G represents small sulphur-furnaces distributed evenly about the floor, and employed to produce sulphur-fumes for imparting a golden color to the tobacco. It will be seen that the apparatus is very simple and cheap and within the means of ordinary tobacco-planters; also, that the method of operation is simple and may be conducted skillfully and successfully by the planters themselves.

The curing process, which takes several months by the natural course, may by this method be so accelerated that half or more of the usual time may be saved.

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

In a tobacco-drying barn, the combination, with the heaters B, arranged in two parallel rows on opposite sides of the floor of the barn, of the elbow-pipes D E, leading from the sides of the barn above the roof, and the inclined pipes C, extending in pairs from the heaters to the pipes D E, substantially as and for the purpose set forth.

JAMES HENRY FIZER.

Witnesses:

HENRY PATTERSON,
JOS. A. MILLER.