

CHARLES W. FLIPPEN.

Improvement in Tobacco Curing Apparatus.

No. 125,277.

Patented April 2, 1872.

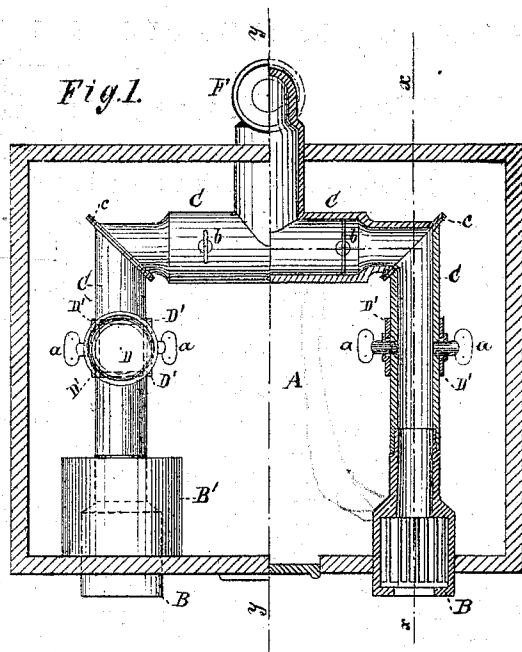


Fig. 3.

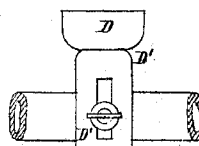
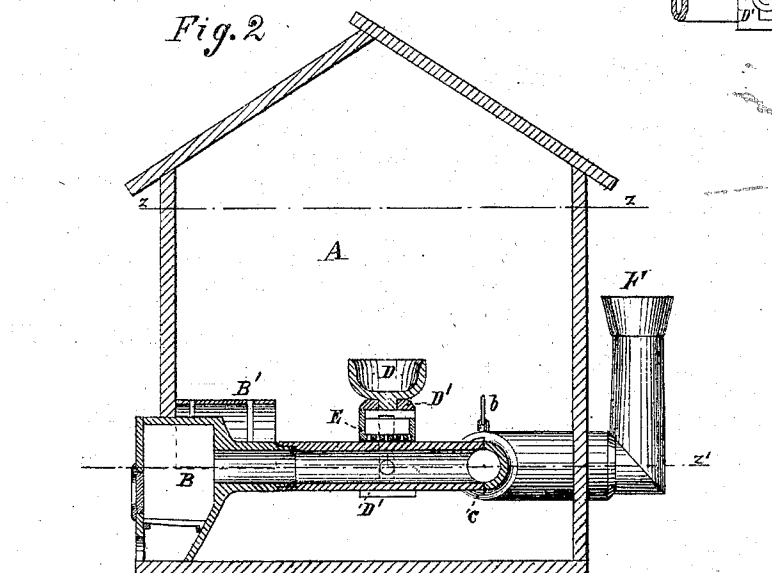


Fig. 2.



Witnesses:

G. Mearns
John A. Lemon

Inventor:

Chas W Flippen

per [Signature]
Attorneys.

UNITED STATES PATENT OFFICE.

CHARLES W. FLIPPEN, OF LAUREL GROVE, VIRGINIA.

IMPROVEMENT IN TOBACCO-CURING APPARATUS.

Specification forming part of Letters Patent No. 125,277, dated April 2, 1872.

Specification describing a Process and Apparatus for Yellowing Tobacco, and subsequently rendering it pliable, invented by CHARLES W. FLIPPEN, of Laurel Grove, in the county of Pittsylvania and State of Virginia.

The invention will first be fully described hereinafter and then clearly pointed out in the claims.

Figure 1 is a horizontal section through furnace and pipes; and Fig. 2 a vertical section through a pipe, furnace, vaporizer, frame, and a charcoal-box. Fig. 3 is a detail side elevation of the adjustable evaporator, provided with subjacent chamber for coal-box.

A is a tobacco-house; B B, furnaces opening on the outside, and provided with shields B', on the inside of the building. C are sectional heating-pipes. D are vaporizers, placed in adjustable frames D', and upon said pipes. E are charcoal boxes; and F the chimney of the furnace. *a* are set-screws; *b*, dampers; and *c*, connecting and detachable flanges on the end of pipes C.

Water is placed in the evaporators D which rest near the heating-pipes C. Tobacco is hung up in the house A, the latter is tightly closed, and the fires started in the furnaces. As the pipes radiate heat into the chamber, the vaporizers D moisten the air, thus producing a high but moist temperature, which superinduces the yellow color desired. When the tobacco has been yellowed to the satisfaction of the operator, the water is drawn from the vaporizers; a gradual increase of heat is then secured for drying the leaves, stalk, and stem.

The tobacco is now cured. The furnace fires are now put out and the vaporizers raised and filled with water. The boxes E, provided with charcoal fires, are then placed beneath the vaporizing-kettles and caused to evolve aqueous vapor into the air until the tobacco is sufficiently impregnated therewith, made pliable, and can be handled without fracture. The heating-pipes are made in readily detachable sections, and connected by flanges *c*, so that they may be conveniently taken apart and cleaned.

Having thus described all that is necessary to a full understanding of my invention, what I esteem to be new, and desire to secure by Letters Patent, is—

1. The process of yellowing tobacco by applying heat and steam simultaneously and previous to the process of drying the leaves and stems, as described.

2. I claim, in tobacco-houses, the arrangement of the furnaces B on the outside and with shields B' on the inside, in order to distribute the heat more equably through the building, as described.

3. The vaporizers D, arranged on adjustable frames D', which themselves rest on the heating-pipes C when yellowing the tobacco, but are raised to receive thereunder the charcoal boxes E, when moistening it, all as set forth.

CHARLES W. FLIPPEN.

Witnesses:

J. D. HAWKINS,

W. B. WEISIGER, Jr.