E. Holbrook. Jr.,

Curing Tobacco.

No. 108,355. Patented Oct. 18. 1870

Fig. 1.

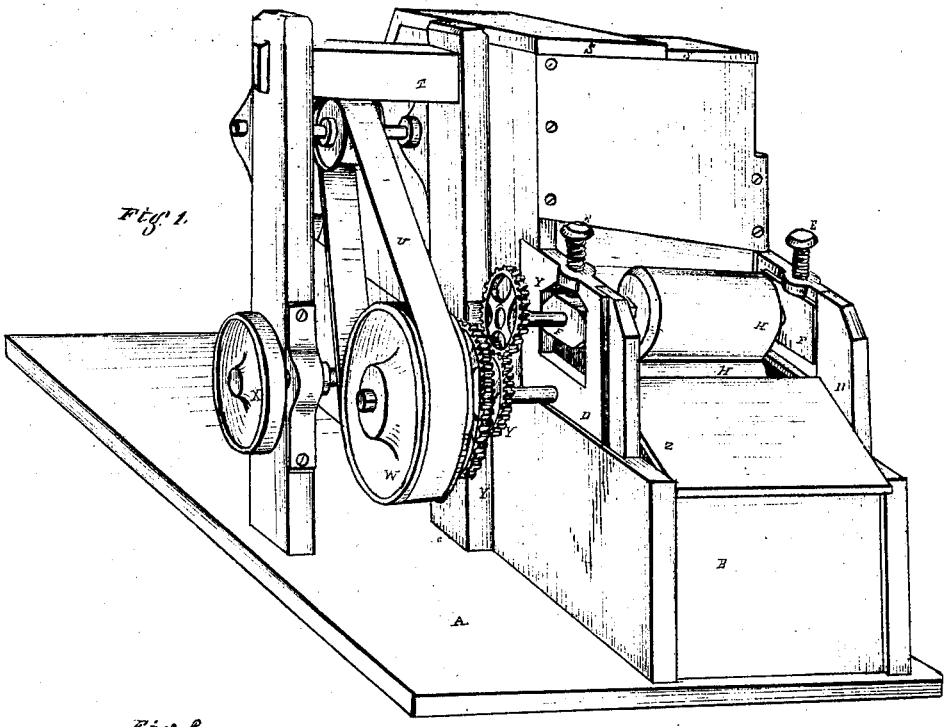
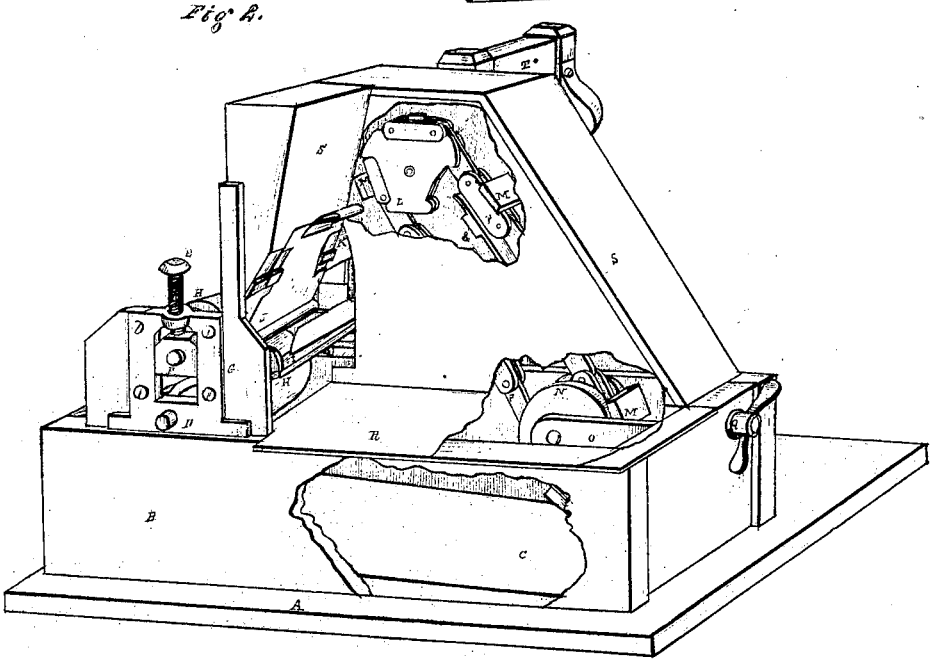


Fig. 2.



Witness;

E. F. Huyck

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EDWARD HOLBROOK, JR., OF LOUISVILLE, KENTUCKY.

Letters Patent No. 108,355, dated October 18, 1870.

IMPROVEMENT IN TOBACCO-CASING MACHINES.

The Schedule referred to in these Letters Patent and making part of the same

I, EDWARD HOLBROOK, Jr., of the city of Louisville, county of Jefferson and State of Kentucky, have invented a certain new and useful Improvement in Tobacco-casing Machines, of which the following is a specification.

This invention consists in providing a small trough-shaped case, secured to a suitable frame or platform, on one end of which case rests the stands or housing of a pair of small rolls, made somewhat similar to a clothes-wringer, the outer surface of which is covered with a thick coating of India rubber; the upper journal-boxes of the rolls are made to slide in the stand, in order to adjust the rolls, which is done by a set-screw in the top.

The rolls are provided with an apron or table, both on the receiving and discharge side, but the one on the receiving side is provided with flanges at the sides, in order to keep the tobacco in place, and is also used as a table on which to lay the leaf-tobacco preparatory to being sprinkled with the desired liquid preparation, which is supplied from a small trough immediately above the entrance to the rolls.

The lower edge of this trough is made nearly sharp, with a long slot-hole in the under edge through which the liquid passes down into another trough-shaped box, attached to an adjustable slide, on the under side of the first trough.

The under side of this last-named trough is perforated with holes, in order to distribute the liquid more evenly over the surface, and to regulate the quantity required on the leaves before entering the rolls, the liquid for the purpose being supplied from the large trough below, by means of elevator-cups attached to an endless chain, operated by power applied to suitable pulleys above and below.

The one at the lower end is made to work in bearings made similar to a clevis, with a screw on one end, which passes through the end of the trough, with a thumb-nut on the outside, in order to take up the slack of the chain.

This chain and the rolls are driven by power applied by means of a series of suitable pulleys and spur-gearing, a portion of which is attached to a small wooden frame erected on the platform at the side of the large box, while the others are attached to the rolls on the box.

The object of my invention is to provide an economical and expeditious means of saturating leaf tobacco with any desired liquid preparation, preparatory to a further process in its manufacture; and also to distribute the liquid more evenly over the whole surface, in order that it may be pressed sufficiently dry for use as it passes through the rolls.

The manner of operating this invention is to prepare the desired liquid, and put it in the large trough below, the bottom of which descends to the elevators, by which the liquid is carried up and deposited in a small trough over the rolls, the leaf tobacco being placed on the apron or table, ready to receive the liquid as it falls gradually on the leaves as they pass through the rolls.

The top of the liquid-trough is made to answer as a table, on which to prepare the tobacco.

Having thus fully described my invention, a more complete understanding of which may be had by reference to the drawing—

Figure 1 is a perspective view of the back part of the machine, showing the gearing by which it is driven.

Figure 2 is a view of the front of the machine, with a part of the covering left off, showing the interior of the liquid-box and elevators.

A is the base-frame or platform of the machine which is made of wood.

B is the box or trough, which contains the liquid preparation.

C is the inclined bottom.

D D are the iron roll stands.

F F are the sliding boxes.

E E are the set-screws.

H H are the rolls, which are covered with a thick coating of India rubber.

G is the frame that supports the table.

I is the table.

J is the adjustable slide, with the liquid trough attached.

K is the stationary liquid-trough.

S S are coverings of the machine.

R is the covering of the liquid-box, which is also used as a table on which to prepare the leaf tobacco.

L and N are the pulleys of the elevator-chain.

P P is the chain.

M M M are the elevator-cups, by means of which the liquid is raised from the box B, and deposited in the trough K.

Q is a thumb-nut, by which the slack of the elevator-chain is taken up.

O is the clevis-bearing at the lower end, and is a guide for the chain, secured to the side of the box-frame.

Z is the discharge-table of the rolls.

Y Y Y are the cog-gearing of the rolls.

W, X, and V are the pulleys, by which the machine is driven.

T is the frame to which they are attached; and

U is the belt.

Having thus fully described the drawing,

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

The rolls H H, stands D D, sliding boxes F F, set-screws E E, frame G, table I, sliding trough J, stationary trough K, chain P P, elevating cups M M, chain-pulleys L and N, guides and clevis O, thumb-nut Q, table R, box B, inclined bottom C, case A, and covering S S, all combined and arranged substantially as and for the purpose set forth.

EDWARD HOLBROOK, JR.

Witnesses:

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