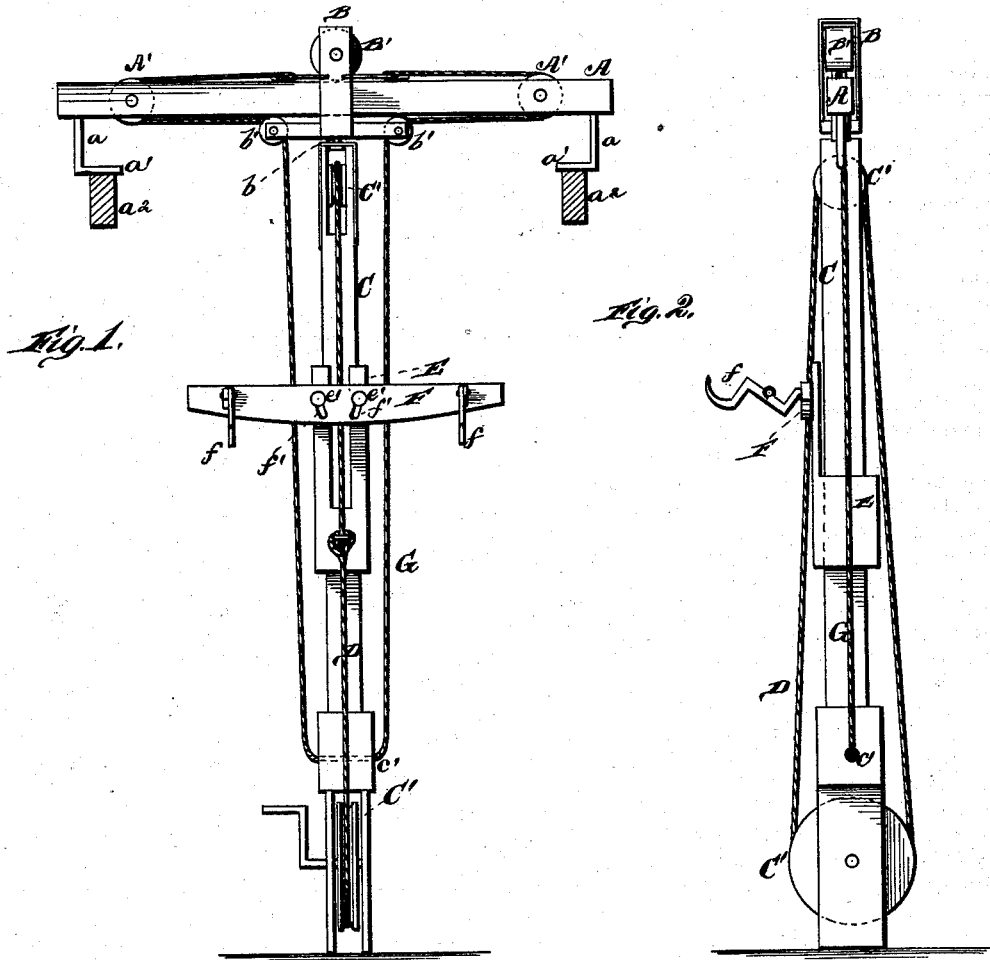


W. A. & W. S. GUY.
Tobacco Hoisting Apparatus.

No. 207,030.

Patented Aug. 13, 1878.



WITNESSES
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WARREN A. GUY AND WILLIAM S. GUY, OF NOTTOWAY C. H., VIRGINIA.

IMPROVEMENT IN TOBACCO-HOISTING APPARATUS.

Specification forming part of Letters Patent No. 207,030, dated August 13, 1878; application filed July 6, 1878.

To all whom it may concern:

Be it known that we, WARREN A. GUY and WILLIAM S. GUY, of Nottoway C. H., in the county of Nottoway and State of Virginia, have invented a new and valuable Improvement in Tobacco-Hoisting Machines; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a part sectional front view of our tobacco-hoisting machine, and Fig. 2 is a side view of the same.

Our invention relates to a tobacco-hoisting apparatus, the object being to hoist tobacco up in a barn, and also to take it down with great facility, the hoisting and lowering being performed by a man upon the floor, while another takes the tobacco from the wagon and places it upon the hoisting-hooks.

Our invention is designed as an improvement upon the device shown in Patent No. 191,619, to C. H. Slaton, June 5, 1877, and the improved novelty lies in affording lateral adjustment to the pendent standard by new and useful means, and in other features, as will be more fully set forth.

Upon a top cross-bar supported upon the top beams of a barn we suspend an upright, which supports a carriage having a cross-piece provided with hooks for supporting the sticks of tobacco. An endless rope attached to the carriage runs over pulleys above and below, for hoisting and lowering the cross-piece. In a suitable frame above, through which the upper cross-bar operates, and from which the pendent upright is swiveled, is journaled a friction-roller, which bears upon the upper surface of the cross-bar. Near each end of this cross-bar is journaled a pulley, and corresponding pulleys are journaled below the cross-bar. A suitable endless rope passes over the pulleys in the cross-bar, inward under the cross-bar, and over the pulleys below, passes down the sides of the upright and through the

same at a suitable distance from the bottom, so as to be within reach of the hoister. Pulling this rope up or down on either side forces the upright to the right or left, the friction-roller traversing the cross-bar.

The cross-piece, which carries the tobacco-stick, and is hung upon the carriage, is provided with slots having pins operating therein, which pins are secured to the carriage. This arrangement and construction allows the tobacco-carrier to be tilted in either direction as the sticks bind upon the beams.

To the top cross-bar we secure legs having feet at right angles thereto, which feet rest upon the beams in the barn, and keep the entire apparatus in an elevated position.

The tobacco-hooks or devices which carry the tobacco-sticks are hinged in the center, so as to form a double hook when open, and allow two sticks of tobacco to be carried at the same time. When folded over or closed they carry one stick. These hooks are secured to the cross-piece on the carriage.

Referring to the drawings, A represents the upper cross-bar, and A' pulleys journaled therein near each end. *a* represents the legs secured to the cross-bar A, and *a'* feet at right angles thereto, which feet rest upon the beams *a''* of the barn. B represents a metal frame, through which the cross-bar A operates, and to this frame is suspended, by a swivel-joint, *b*, the pendent upright C. B' is a friction-roller journaled in the frame B above the cross-bar, and *b' b'* small rollers or pulleys below the cross-bar. In the upright C, above and below, are journaled pulleys C' C', around which the hoisting-rope D operates, and this rope is secured to the carriage E, carrying the cross-bar F having hook *f*. The lower pulley, C', is provided with an operating-crank, *c*.

The adjusting-rope G passes over the pulley A' and the pulleys *b'*, then down the sides of the upright, and through the same at *e'*.

The cross-piece F has slots *f'*, through which operate pins *e'* on the carriage E. By means of these slots the cross-piece F may be tilted in either direction, as the tobacco-stick engages with the bottom of the beams.

The hooks *f*, secured to the cross-piece F, are hinged near their centers, so as to form double hooks to carry two sticks at a time.

When folded over the device forms but one hook.

What we claim as new, and desire to secure by Letters Patent, is—

1. In a tobacco-hoisting machine, the laterally-adjustable upright, pendent from and operating relatively to the cross-bar, as herein specified.

2. The cross-bar A, having legs *a* and feet *a'*, made in one and at right angles with each other, and adapted to serve in relation to the beams *a''*, as and for the purpose set forth.

3. The cross-piece F, having slots *f'*, combined with the carriage E and pins *e'*, adapted to allow the cross-piece F to tilt in either direction, as specified.

4. The hinged double hooks *f f''*, in combi-

nation with the cross-piece F, as and for the purpose set forth.

5. The combination of the frame B, having friction-roller B', the swiveled upright C, and cross-bar A, with means for traversing the roller B' along the upper surface of the cross-bar, as herein set forth.

6. The cross-bar A, pulleys A' A', frame B, roller B', pulleys *b' b'*, and the swiveled upright C, in combination with the adjusting-rope G, as specified.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

WARREN A. GUY.
WILLIAM S. GUY.

Witnesses:

C. E. WILSON,
E. P. WILSON.