C. S. HARTWELL.

ATTACHMENTS FOR WHIP PLATTING MACHINES.

No. 180,026. Patented July 18, 1876.

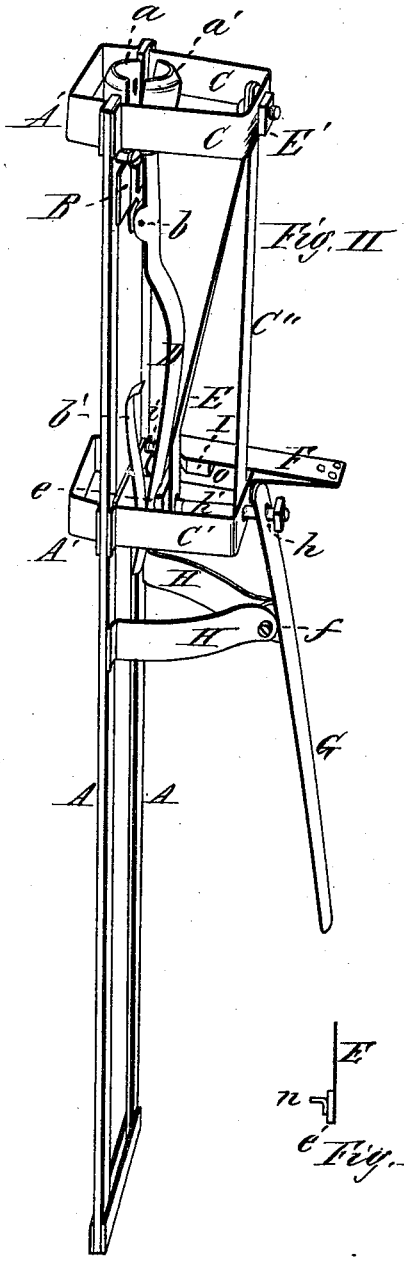

Fig. II

Fig. III

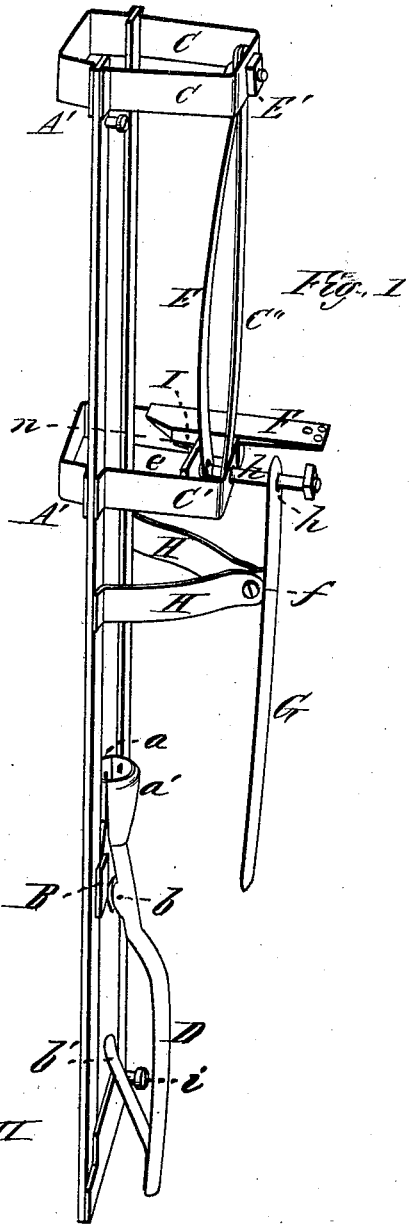

Fig. I

Witnesses,
C. E. Buckland,
Charles McKeand

Inventor;
Charles S. Hartwell
By T. A. Curtis
his Atty.

UNITED STATES PATENT OFFICE.

CHARLES S. HARTWELL, OF WESTFIELD, MASSACHUSETTS.

IMPROVEMENT IN ATTACHMENTS FOR WHIP-PLATTING MACHINES.

Specification forming part of Letters Patent No. **180,026**, dated July 18, 1876; application filed February 23, 1876.

To all whom it may concern:

Be it known that I, CHARLES S. HARTWELL, of Westfield, in the State of Massachusetts, have invented a new and useful Attachment for Whip-Platting Machines; and that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, making a part of this specification, and to the letters of reference marked thereon.

The object of my invention is to provide a means of holding a whip firmly at the butt while it is being platted, and at the same time to permit it to pass upward freely, and, when the platting is finished, to have the whip released from its fastening automatically.

To this end my invention consists of a carriage having two jaws, and sliding up and down in vertical ways or guides, which jaws grasp and hold the butt of the whip firmly, passing upward while the whip is being platted, a projection upon the upward-moving carriage operating to trip a spring-catch, releasing a spring-presser, which opens the jaws and releases the finished whip, and also holds the carriage stationary while another whip-butt is inserted in the jaws, which, with the carriage, is then moved down, the presser and catch being released for that purpose, as will be more fully hereinafter described.

Figure I represents a perspective view of the device with the carriage and jaws lowered to commence the platting of a whip. Fig. II represents the same device with the jaws and carriage elevated, and the jaws opened to release the finished whip; and Fig. III is a side view of the spring presser and catch, which prevents the carriage from falling while the presser is holding the jaws open.

In the drawing, A A represent the upright ways or guides, which may be secured firmly together by braces A′. Arranged to slide freely up and down in these ways is the carriage B, having a permanent jaw, *a*, made thereon, with a movable jaw, *a′*, made upon the upper end of the lever D, which is pivoted to the carriage at *b;* and a spring, *b′*, bearing between the lower arm of said lever and the carriage, operates to keep the jaws always closed.

To the bridge C is secured a spring, E, upon the lower end of which is a presser, *e*, which is connected to the upper end of the lever G, the latter being pivoted at *f* to the braces H; and a spring, F, having a catch, I, at its end, is secured to the bridge C′.

The operation of my invention is as follows: The jaws *a a′* being in the position shown in Fig. II, the butt of a whip to be platted is inserted in the jaws, (which may be provided with sharp points inside to prevent the butt from slipping out,) and the lower end of the lever G pressed in sufficiently to pull the presser *e* along the inclined lower surface of the catch I, and outside of its shoulder *o*, where it is held, as shown in Fig. I, and the jaws and carriage B immediately drop to the lower end of the ways, in the position shown in Fig. I.

The whole device being attached to a whip-platting machine, the latter is then set in motion, with the ordinary weight attached to the upper end of the whip, the jaws below griping firmly its lower end or butt. As the platting proceeds, the whip, carriage, and jaws move up at the proper speed, and when the carriage and jaws reach the top of the ways or guides a projection, *i*, upon the carriage presses up against the catch I, forcing it up sufficiently to permit the presser *e* to move in quickly, pressing against the lever D, and opening the jaws and releasing the butt therefrom; and at the same time a projection, *n*, upon the presser moves in beneath the projection *i* of the carriage, or beneath the carriage itself, to prevent the latter from falling, and to hold it in its elevated position while a new whip-butt is being inserted between the jaws. The platted whip having been removed, another whip-butt is inserted in the jaws, and the lever G pressed in to move out and secure the presser *e*, and to permit the carriage and jaws to drop as before, and the operation of platting the newly-inserted whip proceeds.

It will be perceived that the releasing of the platted whip is entirely automatic, and the whip, while being platted, being held at both ends, is held much more firmly, and in a fixed vertical position, than by any other means now practiced.

The projection *n* upon the presser is not, in itself, an essential feature in the invention, as

it is evident that the presser *e* may be made to press against the lever D with sufficient force to hold the carriage up while inserting the butt.

The lever G, instead of being pivoted to the braces H at a point below the presser, may be pivoted to the bar C′ at a point above the presser, if it should be desired, in practice, to have the lever nearer the upper end of the device to facilitate its operation.

Having thus described my invention, what I claim as new is—

1. The guides A and the carriage B, provided with jaws *a a′*, closed by a spring and moving in said guides, in combination with a spring-presser, *e*, and spring-catch I, whereby a whip, when being platted, is automatically released from the attachment as soon as the platting is completed, substantially as described.

2. The combination of the spring-presser *e*, the spring-catch I, and the lever G, pivoted to said presser, whereby the carriage B is released from its elevated position and permitted to drop after the whip-butt is inserted in the jaws, substantially as described.

CHARLES S. HARTWELL.

Witnesses:

T. A. CURTIS,

C. E. BUCKLAND.