

MACHINE FOR BUNDLING CIGARS.

No. 87,493.

Patented Mar. 2, 1869.

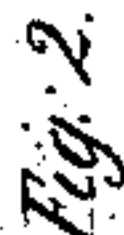


Fig. 3.

Witnesses;
Ernest F. Kastenhuber
C. Wablers

Inventor;
J. D. Heathill
per
Van Santvoort, Sheriff
atty

United States Patent Office.

F. A. HENCKELL, OF NEW YORK, N. Y.

Letters Patent No. 87,493, dated March 2, 1869.

MACHINE FOR BUNDLING CIGARS.

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

To all whom it may concern :

Be it known that I, F. A. HENCKELL, of the city, county, and State of New York, have invented a new and improved Machine for Bundling Cigars; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which drawing—

Figure 1 represents a longitudinal vertical section of this invention.

Figure 2 is an end view of the same.

Figure 3 is a plan or top view of the same.

Similar letters indicate corresponding parts.

This invention consists in the arrangement of sliding jaws, connected to a foot or hand-lever, and provided with one or more recesses, to receive the bands or tapes for tying the bundles, in such a manner that when the jaws are open, the tapes can be easily adjusted, and a quantity of cigars sufficient for a bundle can be conveniently introduced, and by depressing the hand or foot-lever, the two jaws are made to close up, and thereby the cigars are compressed to a bundle of the required size, and then, by tying the tape or tapes, the bundle is readily fastened.

One or more hinged top bars, extending over the jaws, prevent the cigars, when being compressed, from rising up, and an adjustable abutment on one side of the platform, which supports the jaws, assists in adjusting the cigars in the proper position in relation to each other, so that even and uniform bundles can be formed.

The jaws are removable, so that they can be readily taken out and replaced by others, of different size or shape, for different kinds of cigars, or for bundles of different sizes.

A represents a platform, made of wood or any other suitable material, and provided with two V-shaped guide-ways, *a a'*, between which move the jaws B B'.

These jaws are subjected to the action of springs *b b'*, which have a tendency to pull the same apart, and they (the jaws) can be made to move toward each other by the action of a lever, C, which may be operated by hand or foot.

The mechanism connecting the lever and jaws can be varied in many different ways, and I have shown in the drawings two modifications, one of which is attached to one, and the other, to the other jaw; but I will here remark, that I do not wish to confine myself to either of these two devices, and, if desired, one jaw might be made stationary, and only one movable.

From the jaw B extends a toothed rack, *e*, which gears into a pinion, *d*, mounted on a shaft, *c*, which has its bearing in standards *f*, rising from the platform A, and on which is mounted a lever, *g*, that connects, by a rope or chain, *h*, with the lever C.

By depressing this lever, the shaft *c* revolves, and by the action of the pinion *d* on the rack *e*, the jaw B is drawn in.

The spring *b*, in this case, is connected to the shaft as to carry the same, together with the jaw B,

back to its original position, as soon as the pressure on the lever C ceases.

The jaw B' is acted upon by a lever, *i*, which is pivoted, at one end, to a stationary standard, *j*, while its opposite, loose end, is armed with a friction-roller, that bears on the back of the jaw B'.

The lever *i* connects, by a rope or chain, *k*, with the lever C.

In this case the spring *b'* acts directly on the jaw B', and a distinct spring, *l*, throws the lever *i* up, as soon as the pressure on the lever C ceases.

The jaws B B' are secured to sliding standards B*, so that the same can be readily taken off and replaced by others of different form or size, according to the bundles to be formed.

Suitable stops, *m*, prevent the jaws from being thrown open any further than required, and these stops are adjustable by set-screws so that their position can be regulated to suit circumstances.

The jaws B B' and the platform A are provided with one or more recesses, to receive the tapes or ribbons which serve to tie the bundles.

To the top of the standard of the jaw B' are hinged two bars, E, which extend across the jaw B, and are held down by a pin, *n*.

When the jaws open and close, these bars slide under this pin, but they are not permitted to open until the pin is withdrawn.

By these bars the cigars, on being pressed, are prevented from rising up, and, at the same time, sufficient room is left between the bars for fastening the tapes or ribbons.

If desired, only one such bar may be used, extending across the middle of the jaws.

From one side of the platform A rises an abutment, F, which is adjustable toward and from the jaws by a set-screw, *o*.

The cigars, on being introduced between these jaws, are brought to bear against this abutment with their but-ends, so that they will lie even and form uniform bundles.

For cigars of different length, the position of the abutment must be changed.

Having thus described my invention,

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

1. The jaws B B', provided with one or more recesses, to receive the tapes or ribbons, in combination with the platform A and lever C, substantially in the manner set forth.

2. The abutment F, in combination with the jaws B B', platform A, and lever C, substantially as described.

3. The top bars E, (one or more,) in combination with the jaws B B', lever C, and platform A, substantially in the manner specified.

F. A. HENCKELL.

Witnesses:

W. HAUFF,
ERNEST F. KASTENHUBER.