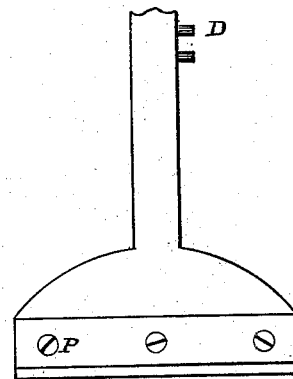
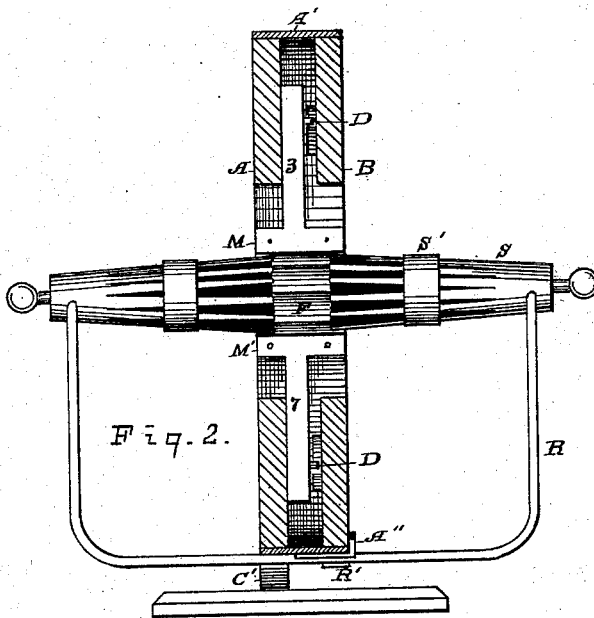
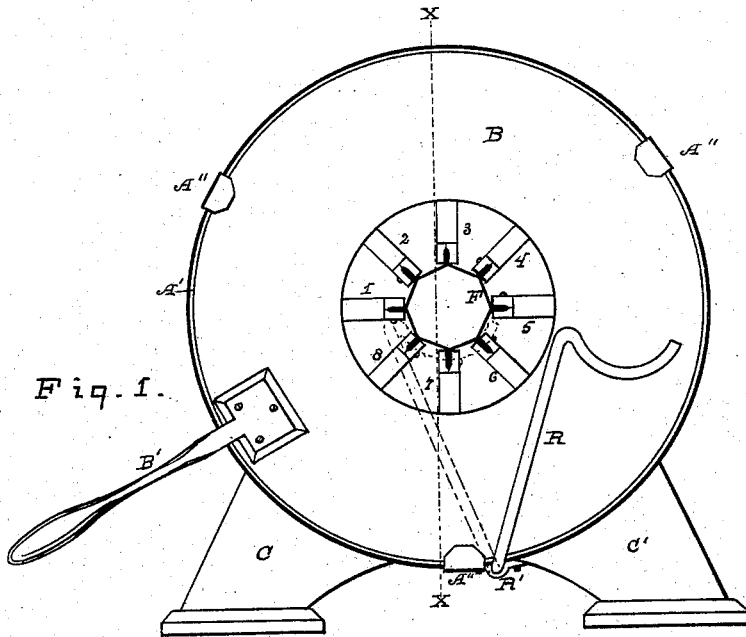


G. W. RHYNEARSON.
Cigar Bundler and Binder.

No. 205,300.

Patented June 25, 1878.



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F. E. Zerbe

Inventor:
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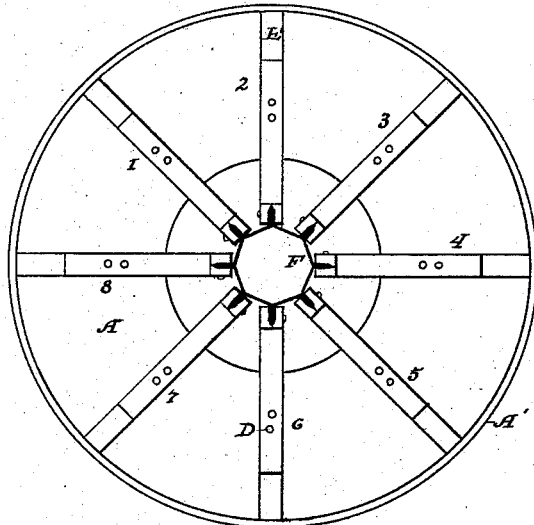


Fig. 4.

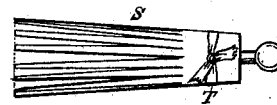


Fig. 5.

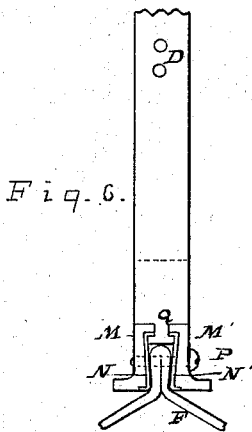


Fig. 6.

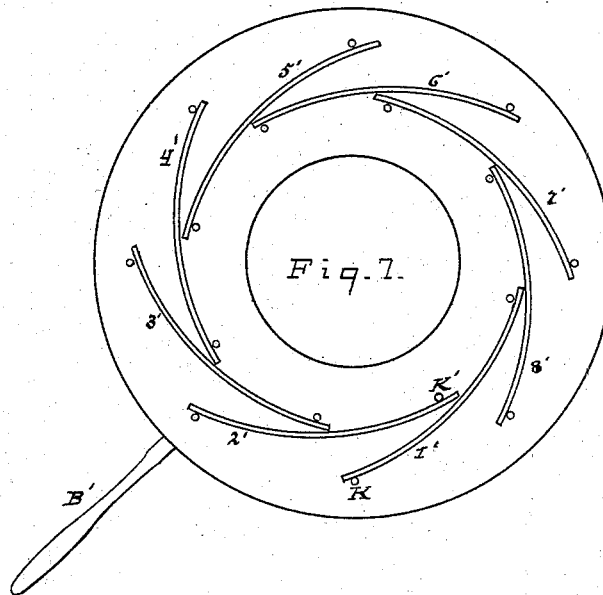


Fig. 7.

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UNITED STATES PATENT OFFICE

GEORGE W. RHYNEARSON, OF CINCINNATI, OHIO.

IMPROVEMENT IN CIGAR BUNDLER AND BINDER.

Specification forming part of Letters Patent No. **205,300**, dated June 25, 1878; application filed September 4, 1877.

To all whom it may concern:

Be it known that I, GEORGE W. RHYNEARSON, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Cigar Bundler and Binder, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 represents a front view of my invention; Fig. 2, a transverse sectional view through the line *x*. Fig. 3 shows a side view of leg and clamp. Fig. 4 shows the inside arrangement on disk A. Fig. 5 represents a view of the binder detached from the machine. Fig. 6, a face view of clamp, showing method of attaching elastic band; Fig. 7, arrangement of eccentric curves on disk B.

The object of my invention is to provide a suitable machine by which cigars can be readily bundled and tied, and is composed of disks and elastic bands, so arranged as to clamp and hold the cigars, and which can be easily operated to press the bundle when made.

By reference to the drawings, A represents a disk, made of wood or other suitable material, with legs or supports C C' attached. This disk is bound with a metal band, A', which is of sufficient width to embrace disk B. B is secured to A by means of catches A'; but it is left free to rotate in its position when operated by handle B'.

F is an elastic band of suitable width, held by clamps M M' N N'. In Fig. 6 I show the method by which I attach the elastic band to the legs 1, 2, 3, 4, 5, 6, 7, and 8. At one end of the stem a detent, Q, is formed, into which the two clamps M M' are fitted, leaving a space large enough in the detent to slide in the hooks of secondary clamps N N'. The screw P passes through the said clamps and elastic band, and can thus be adjusted at pleasure.

When it is desired to loosen the band F the screw P is withdrawn, and the band F can be taken out without detaching the clamps from the legs. The secondary clamps N N' can be changed when it is desired to use a heavier or lighter band, the said clamps being made of material of different thicknesses.

By this means I am also enabled to take out each alternate stem or leg when it is desired

to make square bundles or when it is necessary to change the entire band.

The radiating stems or legs 1, 2, 3, 4, 5, 6, 7, and 8 are held in position by means of grooves E on the inner surface of disk A, as shown in Fig. 4. The radiating stems are provided with pins or studs D, between which the eccentric curves 1', 2', 3', 4', 5', 6', 7', and 8', Fig. 7, operate. The said curves are also provided with stops K K', which prevent the disk from turning too far.

In Fig. 5 I show a thimble made of metal or other material, slightly tapering, having a handle at the smaller end. This thimble is provided with deep or acute serrations, which permit said thimble to be contracted or expanded, the band S' being made of sufficient diameter to pass over the small end of the thimble, contracting the serrations. Attached to the lower side of the band A' is a wire, R, pivoted to A' by means of a journal, R'. This wire support is curved into a suitable shape for the purpose of holding the thimble S.

When it is desired to operate the machine, the handle B' is raised, turning the disk B. By this motion the eccentric curves 1', 2', 3', 4', 5', 6', 7', and 8' operate against the studs D in stems 1, 2, 3, 4, 5, 6, 7, and 8, distending or expanding the elastic band F. The cigars are then placed in the circular opening thus made, and when a sufficient number are inserted the wire support R is brought forward to a level with the circular opening, and the teeth of the thimble S inserted between the band F and the cigars, the smaller end of the thimble resting on the wire support. The handle B' is then lowered, contracting the band and compacting the bundle. The tape T is then tied around the thimble, as shown in Fig. 5, after which the band S' is placed on the thimble and moved toward the opposite end. By this means the band S' forces the tape over the ends of the bundles, when the thimble is withdrawn and the bundle released from the machine.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A cigar bundler and binder having an elastic band, F, clamp M M' N N', legs 1, 2, 3, 4, 5, 6, 7, and 8, and studs D, substantially as described, and for the purpose specified.

2. A cigar bundler and binder provided with wire support R, thimble S, and band S', substantially as described, and for the purpose herein described.

3. The combination of disks A and B with radiating grooves and stems, elastic band F, clamps M M' N N', eccentric curves or grooves

specified, wire support R, thimble S, and band S', when used in a cigar bundler and binder, substantially as described and herein set forth.

GEORGE W. RHYNEARSON.

Witnesses:

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