No. 838,625. PATENTED DEC. 18, 1906.

J. KING, Sr.

MACHINE FOR BUNDLING CIGARS.

APPLICATION FILED APR. 16, 1906.

Fig. 1

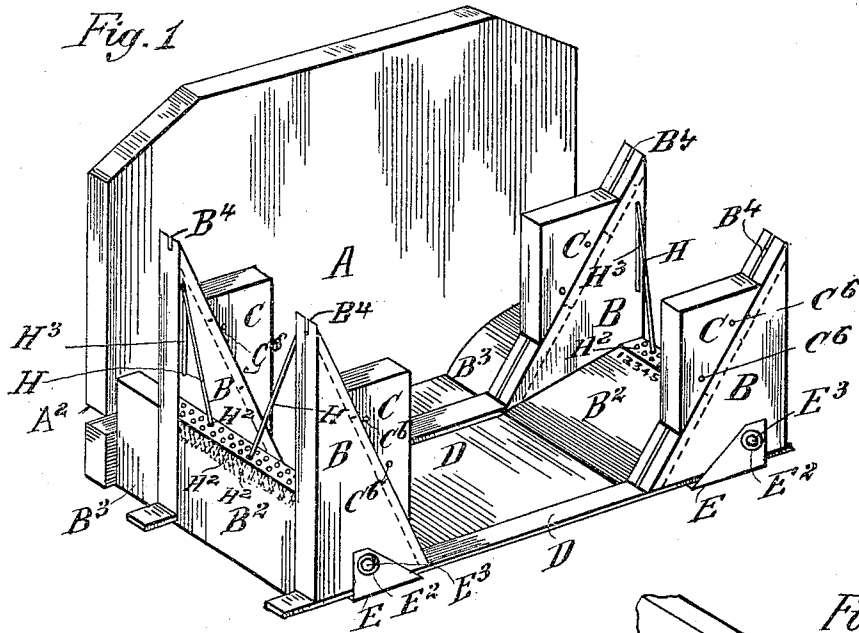


Fig. 2

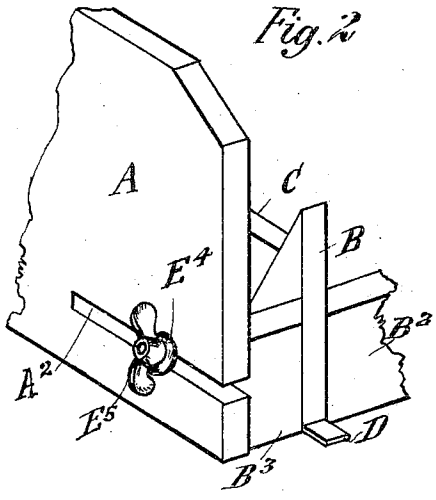


Fig. 4

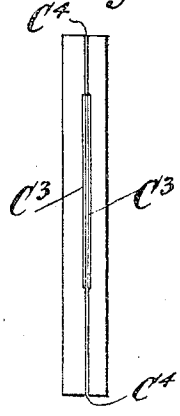


Fig. 3

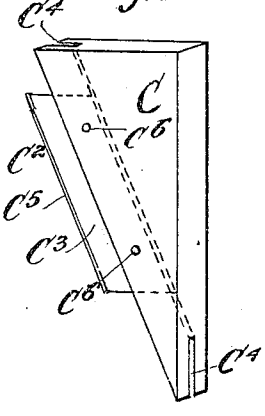


Fig. 5

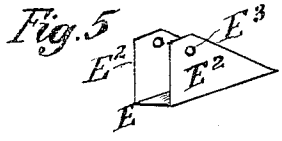
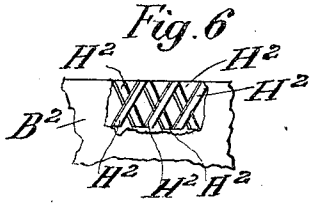


Fig. 6



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MACHINE FOR BUNDLING CIGARS.

No. 838,625. Specification of Letters Patent. Patented Dec. 18, 1906.

Application filed April 16, 1906. Serial No. 311,967.

To all whom it may concern:

Be it known that I, JOSEPH KING, Sr., a citizen of the United States, and a resident of the city of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Machines for Bundling Cigars, of which the following is a specification.

The several features of my invention and the various advantages resulting from their use, conjointly or otherwise, will be apparent from the following description and claims.

In the accompanying drawings, making a part of this application, and in which similar letters of reference indicate corresponding parts, Figure 1 is a view in perspective of the machine embodying my invention. Fig. 2 is a view in perspective of one of the rear corner portions of the same. Fig. 3 is a view in perspective of the side-forming piece and the preferred means for enabling it to be adjustably connected to the angulated piece of Fig. 1. Fig. 4 is a view of that edge of this side-forming piece which faces toward the left in Fig. 3. Fig. 5 is a view in perspective of the preferred means of holding the angulated piece to its guide-rod of Fig. 1. Fig. 6 is a view of either one of the end pieces which receive the ribbon-guiding pins. The piece is broken away to disclose the holes which are to receive the ribbon-guiding pins.

In the mechanism shown in Fig. 1 I provide a back board or platen A. To this is fixed the bottom. The function of this platen is to keep the adjacent ends of the cigars which are to be bundled in one plane.

D D are bottom pieces which constitute slides for the angle-pieces B. These angle-pieces B are preferably thin, and therefore there are at least two of them at each side. These angle-pieces respectively slide on the guides D D. Each angle-piece B is held to the guide by means of an angulated piece E. Each pair of angle-pieces B B is separated by an intervening piece B^2, which I have previously referred to as an "end" piece. The angle-piece B next to the platen A is separated therefrom by an intermediate piece B^3. These pieces B^2 and B^3 perform two functions. They respectively separate the parts mentioned and they brace and strengthen the machine. Bolts E^3 pass through the angle-piece B, part B^2, the next angle-piece B, the part B^3, and through the side flanges E^2 of each angulated piece E and through a horizontal slot A^2 in the back platen. The bolt has a washer E^4 and a set thumb-nut E^5. This construction allows the angle-pieces B to be moved nearer together or farther apart, the bolt E^3 moving along in the slot A^2 as the combined parts held by that bolt are moved along. When the parts are in the desired location, the set-nut E^5 is tightened, and the parts are thus not only set, but are firmly bound together.

Upon each angle-piece B is placed an adjustable side-forming piece C. This piece C is adapted to slide up and down on the inclined edge of the angle-piece B. For this purpose it is provided with a central flange C^2, which extends out from its inclined edge. This flange is preferably composed of two parallel plates C^3 C^3. These plates C^3 C^3 at their outer (free) edges gap away from each other. These plates C^3 C^3 are of spring metal. There is in the inclined edge of the piece B a channel or slot B^4. The central flange C^2 is introduced into the slot B^4 by pressing together the free edges of the plates C^3 C^3 and then pushing this compound piece into the slot B^4. The expansion of these plates C^3 C^3, respectively, against the respective sides of the slot B^4 makes sufficient friction to hold the flange C^2, and consequently its piece C, at any point it may be set on the incline of the piece B. The flange C^2 may be made of a single piece, duly frictionized relative to the sides of the slot B^4; but it is preferably made in two pieces C^3 C^3. In the latter case the two pieces may consist, as they do in the present instance, of one large piece bent at its mid-length, the bend being at its rear edge. The free edge of each part C^3 C^3 is preferably bent at right angles, forming a narrow flange C^5. The rear edge of the flange is inserted in a slot C^4 in the inclined edge of the side-forming piece C, and for further insuring this flange C^2 remaining in this slot C^4, I locate pins C^6 C^6, which pass through the part C and the flange C^2.

Devices for guiding the ribbon with which the bundle of cigars is tied are as follows: I provide rods H, two at each end. Each end piece B^2 is provided with holes H^2. The upper end of a rod H leans against the inner side of the adjacent angulated piece B and in a slot H^3. The lower end of the rod is in one of the holes H^2 of the end part B^2. The width of the ribbon will regulate the distance the bottom ends of the rods H H at the end B^2 are apart. This distance is of course regulated

according as the rods are located in holes nearer together or farther apart. As the lower ends of the rods H are located nearer one another, the upper end of each rod will be lower down in the slot H^3, which it occupies. The holes may be numbered at each end, as suggestively indicated in Fig. 1, at the right hand on the upper end of the part B^2. This gage facilitates the quick and accurate setting of the pins H for a desired location of the ribbon and to accommodate its width.

In using the machine, Fig. 1, each pair of angulated pieces B B is moved so that the space between the pairs is the correct one. The side-forming pieces C are moved on their supporting-pieces B, so that the lower portion of each piece B below former C shall present the proper fillet and so that the side edge shall be properly elevated.

In practice the rods H are set at the desired places in the sides B^2 to accommodate the desired width of ribbon and to fix its location in the machine and relatively to the cigars. The ribbon is now located on each end B^2 between the rods of that end B^2. The cigars are then placed in the space between the opposing sides, one end of each cigar being against the guide A. The ribbon, previously placed on the bottom D and the parts B^2 B^2, is now drawn up and over the bundle of cigars and tied. The bundle is now ready to be placed in the machine in which the bundle is duly pressed.

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

1. In mechanism for bundling cigars, the rail-slides and the angle-pieces, the back piece, the intervening pieces, and the guide-shoes embracing the rail-slides and extending up on each side of the angle-piece, and a bolt through each angle-piece, intervening pieces, and the back piece, the latter having a slot parallel to the rails and through which the bolt extends, substantially as and for the purposes specified.

2. In mechanism for bundling cigars, the angle-pieces inclined from the bottom upward and backward, and the adjustable pieces respectively located thereon, and each provided with a centrally-disposed groove-and-tongue guide for enabling these pieces to move up and down their respective inclines without leaving the latter, substantially as and for the purposes specified.

3. In mechanism for bundling cigars, the angle-pieces inclined from the bottom upward and backward, and the adjustable pieces at their inward edge straight, and at their rear edge inclined, this inclined edge resting on the inclined edge of the adjacent angle-piece, and guides for enabling the adjustable pieces to move up and down on their angle-pieces without leaving them, substantially as and for the purposes specified.

4. In mechanism for bundling cigars, the angle-pieces inclined from the bottom upward and backward, and the adjustable pieces at their inward edge straight, and at their rear edge inclined, this inclined edge resting on the inclined edge of the adjacent angle-piece, and guides for enabling the adjustable pieces to move up and down on their angle-pieces without leaving them, the guides, each consisting of the central flange fixed to the inclined edge of the up-and-down sliding piece, and which flange enters a slot formed in the inclined edge of the end piece, substantially as and for the purposes specified.

5. In mechanism for bundling cigars, the angle-pieces B, and the pieces C, each inclined on the side adjacent to their respective pieces B, and the central flanges C^2, each composed of two separable parallel sheets, and secured to their respective pieces C, the angle-pieces B each having a central slot, into which the adjacent central flange C^2 is received, substantially as and for the purposes specified.

6. In mechanism for bundling cigars, the angle-pieces B, each provided with a central slot, and the pieces C, each inclined on the side adjacent to their respective pieces B, and each provided with a central flange composed of two parallel sheets secured to its piece C, and at edge provided with narrow flange, these flanged edges adapted to be introduced into the slot of piece B and to slide within the same, substantially as and for the purposes specified.

7. In mechanism for bundling cigars, the angle-pieces B each provided with a central slot, and the pieces C each inclined on the side adjacent to their respective pieces B, and each provided with a central flange composed of two plates bent from a single sheet, the folded end being within a slot of the piece C, and the free edge portions of the two plates sliding in the central slot of the piece C, substantially as and for the purposes specified.

8. In mechanism for bundling cigars, the angle-pieces B each provided with a central slot, and the pieces C each inclined on the side adjacent to their respective pieces B, and each provided with a central flange composed of two plates bent from a single sheet, the folded end being within a slot of the piece C, the free edge portions of the two plates each provided with a narrow right-angled flange, these flanges sliding in the central slot of the piece C, substantially as and for the purposes specified.

9. In a machine for bundling cigars, the angle-pieces B; and the angulated pieces E, whose inner edge is vertical; one of these angulated pieces E, for each angle-piece B and adjustably slidable thereon; substantially as and for the purposes set forth.

10. In a machine for bundling cigars, the rails D, D; the angle-pieces B; shoes or

flanged pieces E, E^2, E^2; the side-forming pieces C, C, inclined on their rear edges and each having a central flange entering the slot of the angle-piece B; the said shoe or angulated pieces E, E^2, E^2, each connected to the lower portion of its adjacent sliding angle-piece B and each embracing one of the rails D; a rear or back plate A; the intermediate separating-pieces for holding the angle-pieces B apart from each other and from the back platen; and the bolts E^3, E^3, respectively connecting the angle-pieces B, B, with the back platen, each bolt extending through a slot in the back platen, substantially as and for the purposes specified.

11. In a machine for bundling cigars, the angle-pieces B each having a slot in its side, and the intermediate end pieces B^2, the latter provided with holes, and the rods adapted to enter said holes and respectively rest in said respective slots, substantially as and for the purposes specified.

12. In a machine for bundling cigars, the angle-pieces, and the intermediate end pieces, all adjustable to and from the mid-length of the machine, and the ribbon-guide rods secured in the intermediate pieces, substantially as and for the purposes specified.

13. In a machine for bundling cigars, the angle-pieces, and the intermediate end pieces, all adjustable to and from the mid-length of the machine, and the ribbon-guide rods secured in the intermediate pieces, and adjustable to and from each other, substantially as and for the purposes specified.

JOSEPH KING, SR.

Attest:
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