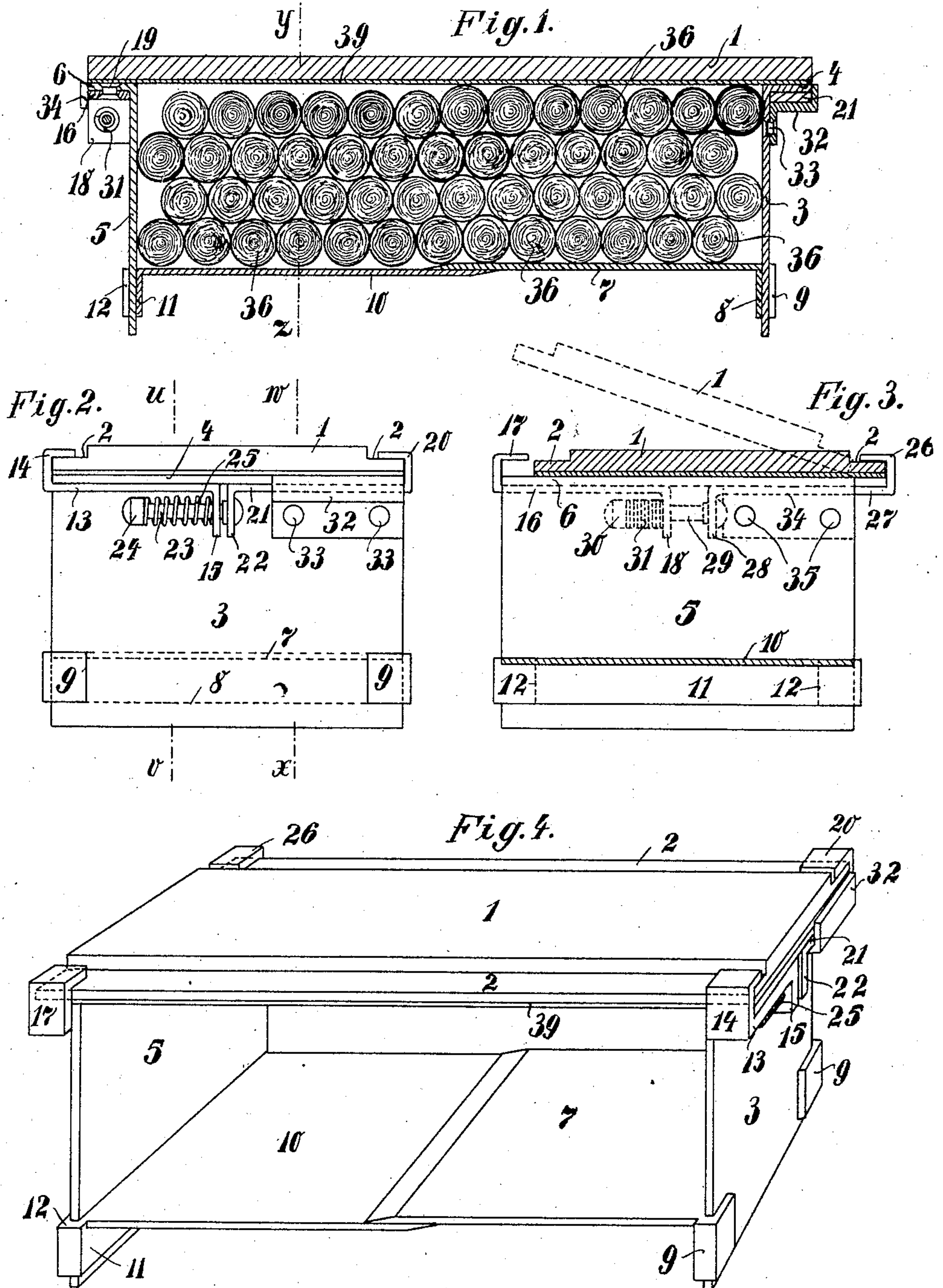


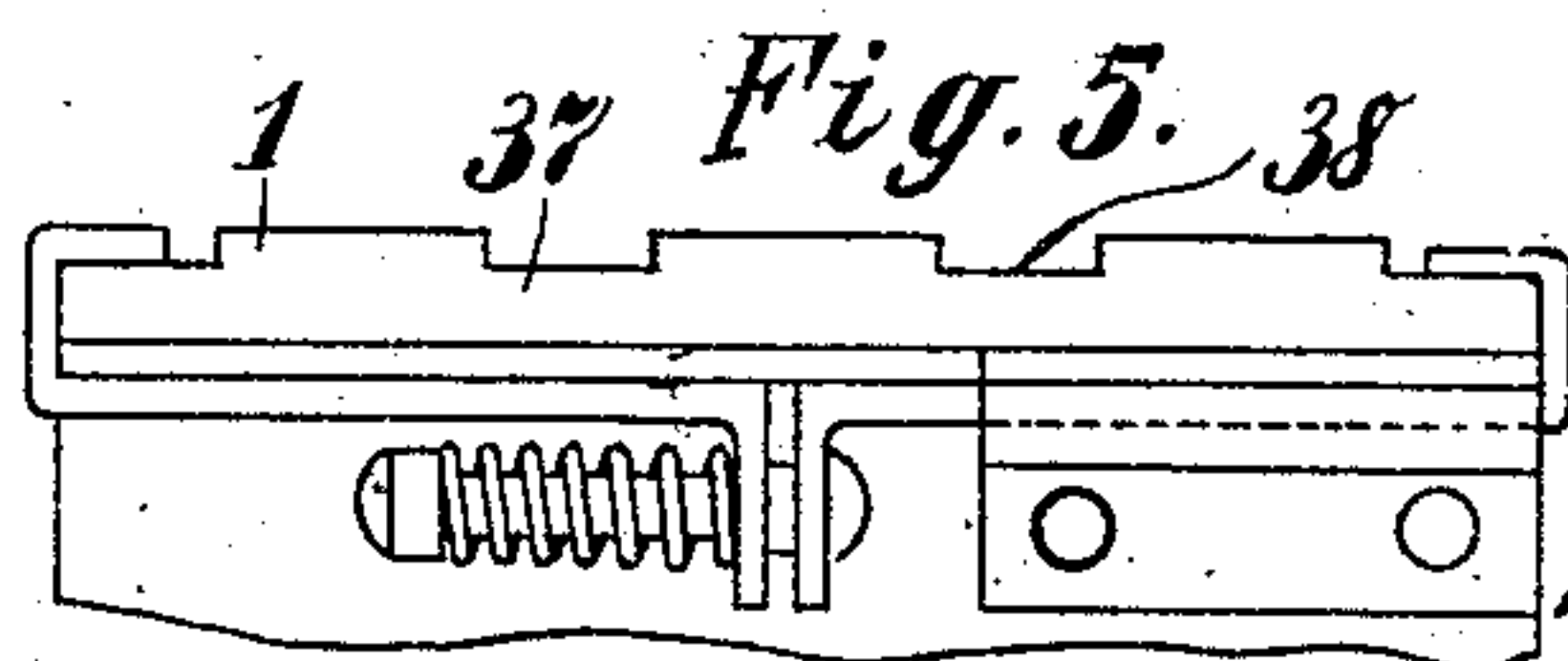
R. WOERNER.
CIGAR PRESSING BOX.
APPLICATION FILED JULY 1, 1909.

944,758.

Patented Dec. 28, 1909.



Witnesses:
Waldo M. Chapin
William C. Lang.



Inventor,
Robert Woerner
by
Reuben Stockbridge
Attys.

UNITED STATES PATENT OFFICE.

ROBERT WOERNER, OF MANNHEIM, GERMANY.

CIGAR-PRESSING BOX.

944,758.

Specification of Letters Patent.

Patented Dec. 28, 1909.

Application filed July 1, 1909. Serial No. 505,336.

To all whom it may concern:

Be it known that I, ROBERT WOERNER, a citizen of the Empire of Germany, residing at Mannheim, in the Empire of Germany, have invented a new and useful Cigar-Pressing Box, of which the following is a specification.

For pressing parcels of cigars special boxes are necessary which are adapted to receive the cigars and to be inserted in a known press. There are known constructions of such cigar-pressing boxes in use, both with undivided smooth walls and with divided walls. All of these known cigar-pressing boxes, however, present various defects. Before all their cover is very apt to hurt the uppermost row of cigars by moving along it. Those cigar-pressing boxes, in which the bottom consists of a single board and the cover consists of two boards overlapping one another, present chiefly the defect, that during the compression of the parcel of cigars from two opposite sides the uppermost row of cigars is apt to be hurt by the edge of the cover half engaging beneath that of the other half. In any case no perfectly regular surface can be thereby formed on the uppermost row of cigars. Other cigar-pressing boxes whose bottom and cover consist each of a single board present the defect, that during the compression of the parcel of cigars from both sides the cover slides over the whole uppermost layer of cigars and thereby puts them out of true and easily hurts them. Moreover the said boxes present the disadvantage, that one side wall requires to have a larger opening for the introduction of the cover and that the parallel movement of the latter is necessarily interrupted during the compression, so that also in this case no proper surface can be produced on the cigars.

My invention relates to an improved cigar-pressing box by which the said defects and disadvantages are avoided. This box consists of an undivided cover, two side walls movable along this cover and provided with stationary hooks for engaging one longitudinal edge of the cover and with spring-pressed hooks for engaging the other longitudinal edge of the cover, and two bottom parts overlapping one another and vertically guided on the two side walls. The cover is to remain immovable during the pressing operation while being turned with the box

downward in the press, so that a perfectly uniform surface will be produced on the uppermost layer of cigars. The side walls being approached to one another during the pressing operation at the same time that the two-part bottom is forced downward, so as to approach it to the cover, the regulation of the air channels in the several cigars by pressing will be improved upon. The new box also presents the advantage, that the uppermost layer of cigars to be provided with the surface is placed at last during the assembling of the parcel of cigars in the box, as it is thereby rendered possible to make sure, that the uppermost layer of cigars has the correct position before the pressing operation commences. The cover presents the advantage, that it can be easily inserted and removed without hurting the cigars.

I will now proceed to describe my invention with reference to the accompanying drawing, in which—

Figure 1 is a vertical longitudinal section through the cigar-pressing box filled with cigars on the lines $u-v$ and $w-x$ in Fig. 2 for the left and right parts respectively of Fig. 1, Fig. 2 is a side view of the same, when looked at from right in Fig. 1, Fig. 3 is a vertical cross section through the same on the line $y-z$ in Fig. 1, the cigar being removed and the cover being shifted outward before its removal indicated by the dotted lines, Fig. 4 is a perspective view of the same without the cigars, and Fig. 5 is similar to Fig. 2 and shows a modified cover.

Similar characters of reference refer to similar parts throughout the several views.

1 denotes a detachable undivided cover of any known material and provided along its longitudinal edges with two recesses 2, 2. Where so preferred, the underside of the cover 1 may be covered with a plate of an elastic material (rubber for instance).

3 and 5 are two vertical side walls which are shown as consisting of sheet metal and being bent at the upper ends so as to form two flanges 4 and 6.

7 and 10 are two bottom parts which are shown as made from sheet metal and so bent as to form each one flange 8, 11 and two hooks 9, 9, 12, 12. The vertical side wall 3 can engage in the two hooks 9, 9, so that the bottom part 7 is vertically guided on the side wall 3 by means of its flange 8 and hooks 9, 9. In a similar manner the other

bottom part 10 is vertically guided on the side wall 5 by means of its flange 11 and hooks 12, 12. The two bottom parts 7 and 10 are made to overlap one another and their overlapping edges are preferably beveled off and sharpened, as is clearly shown at Figs. 1 and 4.

Two hooks 14 and 17 are in any known manner secured on the two side walls 3 and 5. They are shown as applied with their middle portions 13 and 16 to the two flanges 4 and 6 and fastened thereon in any known manner, for example by means of rivets 19 (Fig. 1), and their lower vertical ends 15 and 18 are provided with holes through which bolts 23 and 29 can pass. Two opposite hooks 20 and 26 are in any known manner movably attached to the two side walls 3 and 5. They are shown as applied with their middle portions 21 and 27 to the two flanges 4 and 6 and guided thereon by means of suitably bent pieces 32 and 34 of sheet metal which are fastened on the side walls 3 and 5 by means of rivets 33, 35. The said two bolts 23 and 29 are in any known manner fastened in the lower vertical ends 22 and 28 of the two movable hooks 20, 26, while at their other ends they are provided with heads 24 and 30. Two helical springs 25, 31 surrounding the two bolts 23, 29 and bearing against the lugs 15, 18 on the one hand and against the heads 24, 30 on the other hand serve for pressing the two movable hooks 20, 26 against the ends of the flanges 4, 6. The two hooks 14 and 17 can engage in one longitudinal recess 2 of the cover 1 and the two other hooks 20 and 26 can engage in the other longitudinal recess 2, as is clearly shown at Figs. 2 and 4. It will be evident, that the two side walls 3 and 5 are horizontally guided beneath the cover 1 by means of their flanges 4, 6 and hooks 14, 20, 17, 26. The cover 1 is preferably provided with the said two recesses 2, 2, so as to permit the hooks 14, 17, 20, 26 to freely move above the bottom of the respective space in the press during the pressing operation.

The cigar-pressing box is made about as wide as the cigars 36, 36 are long, and so long as to afford space for a row of a desired number of cigars, for example thirteen as shown at Fig. 1. The two side walls 3, 5 are made so high, that the box can receive a parcel of cigars of the desired size, for example four superposed rows of cigars, of which two alternating rows comprise 13 cigars and the other two ones 12 cigars each, as shown at Fig. 1.

The cigar-pressing box described is operated as follows: It is placed in some known jig, in which the two side walls 3 and 5 are pushed away from one another until they bear against the adjustable walls of the jig. Then the left longitudinal edge of the cover 1 in Fig. 2 is seized with the fingers and

pushed to the right while overcoming the tension of the two helical springs 25, 31 (see Fig. 3) until it is released by the hooks 14, 17, whereupon the cover is a little turned upward, when the two helical springs 25, 31 will by the hooks 20, 27 push the cover 1 forward, so that it can be taken out of the movable hooks 20, 27 and removed as is indicated by the dotted lines in Fig. 3. Next the cigars 36, 36 are introduced and placed for example in the four superposed rows shown at Fig. 1. Afterward the cover 1 is put on, it being inserted in an inclined position in the movable hooks 20, 26 and pushed rearward (that is to the right in Fig. 3), until its other edge can engage beneath the fast hooks 14, 17, whereupon the two helical springs 25, 31 will pull the cover into its normal position. The box so charged with the cigars can be turned with its cover 1 downward and inserted in the respective press, where during the pressing operation the two side walls 3 and 5 will in a known manner be pushed toward one another and the two bottom parts 7 and 10 will be forced downward toward the cover 1. The sharpened overlapping end of the bottom part 7 can easily slide over the respective cigars 36 in the uppermost row (that is the lowermost row in Fig. 1) without hurting them. As the bottom is made in two parts, of course the stroke of each bottom part 7, 10 during the pressing operation will be only half that of an undivided bottom, if the latter were used as in known cigar-pressing boxes. The cover 1, on the contrary, will not shift at all in the press during the pressing operation, so that the uppermost cigars in contact with the cover are protected from being hurt while receiving their surface. Trials have proved, that the cigars in the uppermost row so pressed are perfectly horizontal and show a smooth surface, while their points or ends are not at all turned downward as cigars pressed in the old methods. It is also an advantage, that for opening the box the cover 1 need not be moved over the whole of the uppermost layer of cigars as hitherto, but it need only be shifted through a small distance in the cross direction, so that the cigars are equally protected from being hurt.

Where so preferred, the cover 1 may be provided with one or two longitudinal recesses 37, 38, as shown at Fig. 5, whereby the adjustment of the box charged with cigars in the press is facilitated, known lugs being provided in the press for engaging in the recesses 37, 38.

The cigar-pressing box can be varied in many respects without departing from the spirit of my invention. For example the two guides 32, 34 may be soldered on the side walls 3, 5, or they may be made in one with the flanges 4, 6, the latter being provided

with projecting lugs, which are then bent around, so as to engage beneath the middle portions 21, 27 of the movable hooks 20, 26. The plate 39 of elastical material may be omitted from the cover 1.

I claim:

1. In a cigar-pressing box, the combination with an undivided cover, of two opposite side walls guided beneath said cover in a direction at right angles to them, means for coupling said cover to said two side walls and for uncoupling it therefrom at will, and two bottom parts vertically guided on said two side walls and overlapping one another.

2. In a cigar-pressing box, the combination with an undivided cover, of two opposite side walls provided with hooks for engaging one longitudinal edge of said cover and with spring-pressed hooks for engaging the other longitudinal edge of said cover so that said side walls can be horizontally adjusted beneath the latter, and two bottom parts vertically guided on said two side walls and overlapping one another.

3. In a cigar-pressing box, the combination with an undivided cover, of two opposite side walls provided with hooks for engaging one longitudinal edge of said cover, two spring-pressed hooks guided on said two side walls and adapted to engage the other longitudinal edge of said cover, and two bottom parts vertically guided on said two side walls and overlapping one another, said two side walls being adapted to move along said cover and the latter being capable of coupling to the former and of uncoupling therefrom.

4. In a cigar-pressing box, the combination with an undivided cover, of two opposite side walls provided with guides and hooks which latter are adapted to engage one longitudinal edge of said cover, two spring-pressed hooks guided in the guides of said two side walls and adapted to engage the other longitudinal edge of said cover, and two bottom parts vertically guided on said two side walls and overlapping one another, said two side walls being adapted to move along said cover and the latter being capable of coupling to the former and of uncoupling therefrom.

5. In a cigar-pressing box, the combination with an undivided cover, of two opposite side walls provided with flanges for bearing against said cover and with hooks for engaging one longitudinal edge of the same, two spring-pressed hooks guided on the flanges of said two side walls and adapted to

engage the other longitudinal edge of said cover for pressing the latter into said hooks, and two bottom parts vertically guided on said two side walls and overlapping one another, said two side walls being adapted to move along said cover and the latter being capable of coupling to the former and of uncoupling therefrom.

6. In a cigar-pressing box, the combination with an undivided cover having recesses along its two longitudinal edges, of two opposite side walls provided with hooks for engaging one recessed longitudinal edge of said cover, two spring-pressed hooks guided on said two side walls and adapted to engage the other recessed longitudinal edge of said cover, and two bottom parts vertically guided on said two side walls and overlapping one another, said two side walls being adapted to move along said cover and the latter being capable of coupling to the former and of uncoupling therefrom.

7. In a cigar-pressing box, the combination with an undivided cover having recesses along its two longitudinal edges, of two opposite side walls provided with guides and hooks which latter are adapted to engage one recessed longitudinal edge of said cover, two spring-pressed hooks guided in the guides of said two side walls and adapted to engage the other recessed longitudinal edge of said cover, and two bottom parts vertically guided on said two side walls and overlapping one another, said two side walls being adapted to move along said cover and the latter being capable of coupling to the former and of uncoupling therefrom.

8. In a cigar-pressing box, the combination with an undivided cover having recesses along its two longitudinal edges, of two opposite side walls provided with flanges for bearing against said cover and with hooks for engaging one recessed longitudinal edge of the same, two spring-pressed hooks guided on the flanges of said two side walls and adapted to engage the other recessed longitudinal edge of said cover for pressing the latter into said hooks, and two bottom parts vertically guided on said two side walls and overlapping one another, said two side walls being adapted to move along said cover and the latter being capable of coupling to the former and of uncoupling therefrom.

ROBERT WOERNER.

Witnesses:

KARL EDER,
HEINRICH KIRSCH.