

No. 678,986.

Patented July 23, 1901.

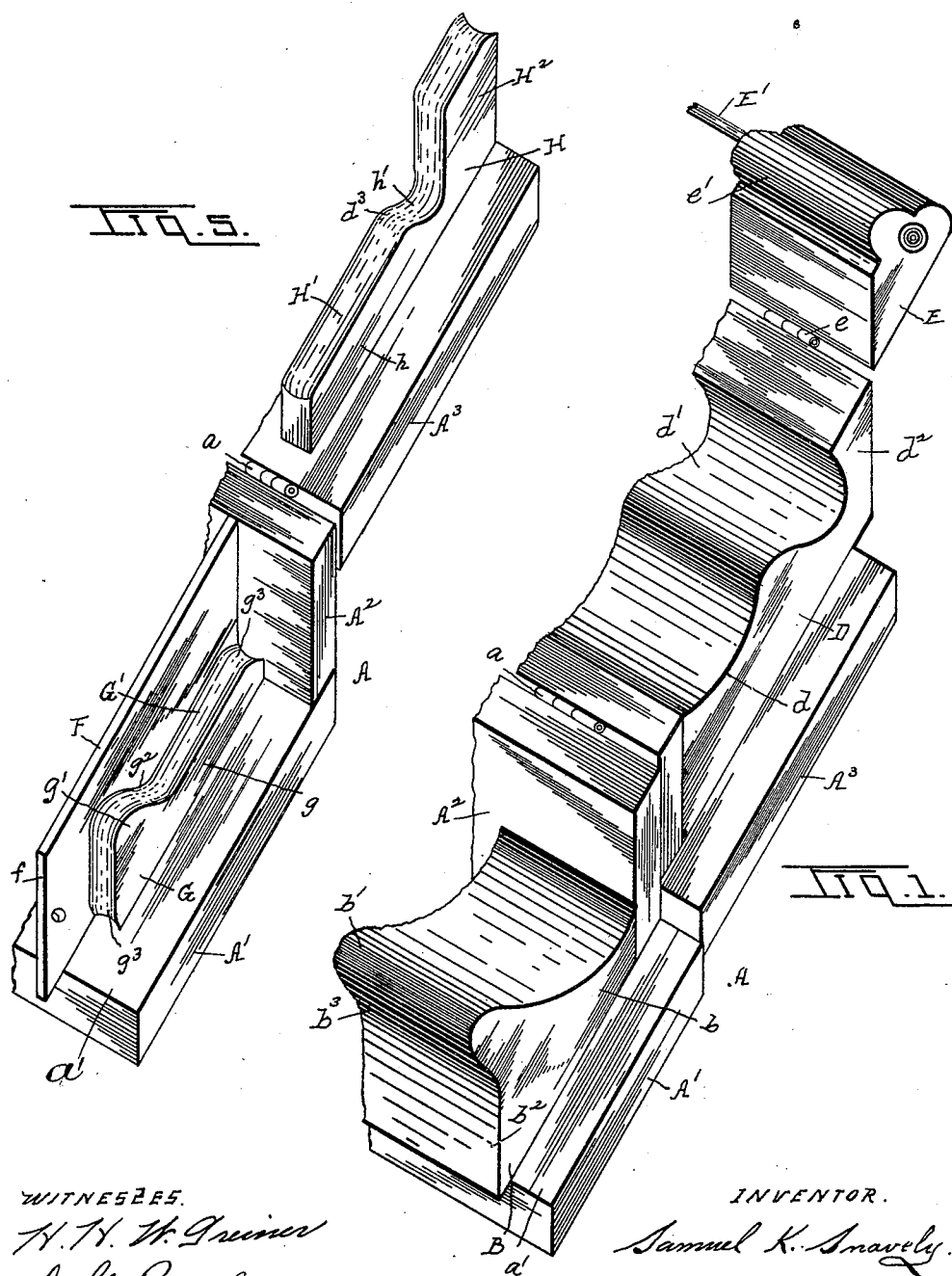
S. K. SNAVELY.

CIGAR MOLD.

(Application filed Oct. 27, 1899.)

(No Model.)

3 Sheets—Sheet 1.



WITNESSES.

H. H. H. Griner
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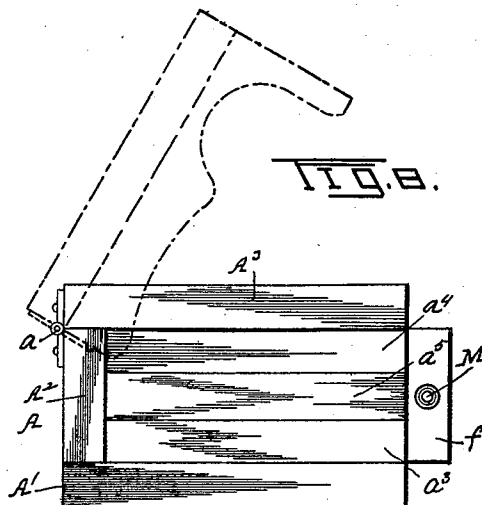
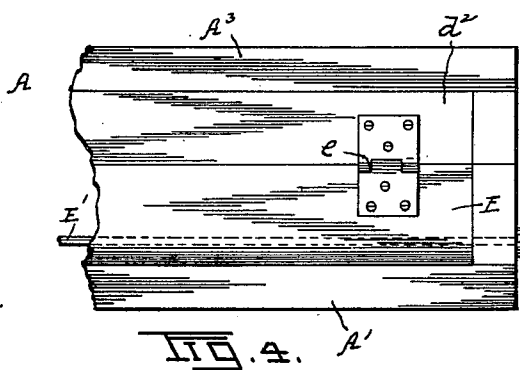
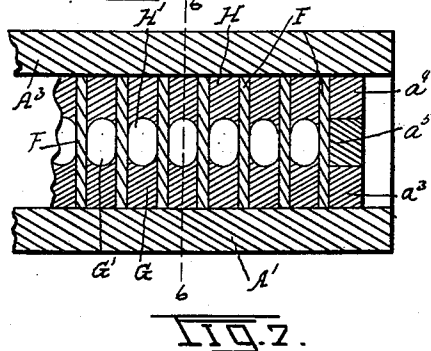
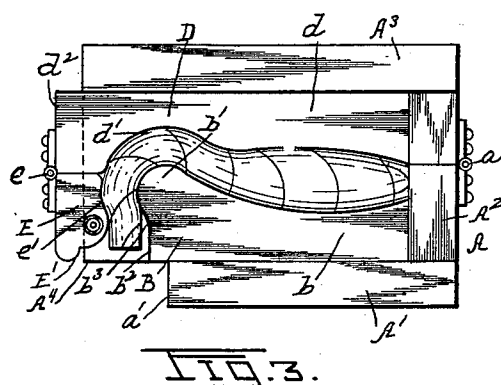
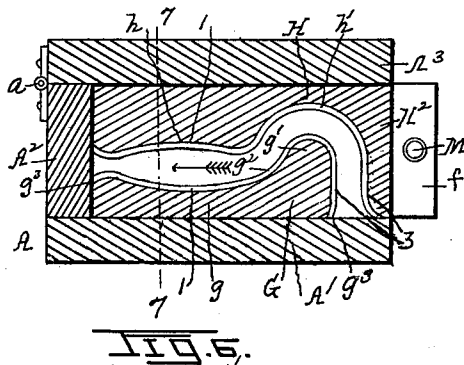
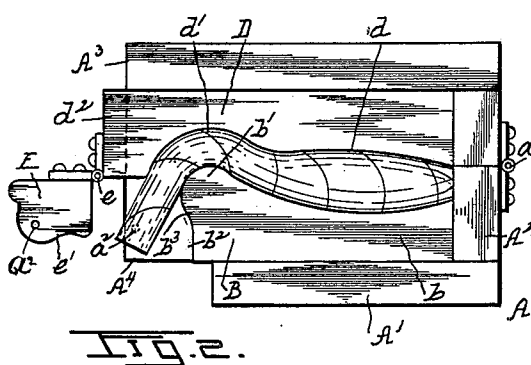
S. K. SNAVELY.

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(Application filed Oct. 27, 1899.)

(No Model.)

3 Sheets—Sheet 2.



WITNESSES

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No. 678,986.

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3 Sheets—Sheet 3.

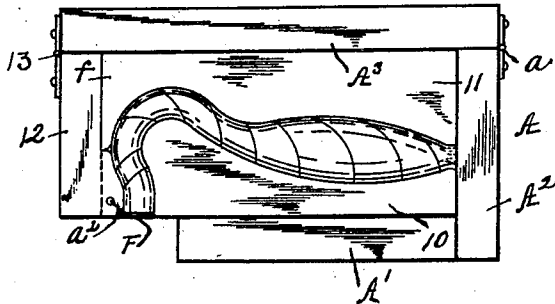


Fig. 10.

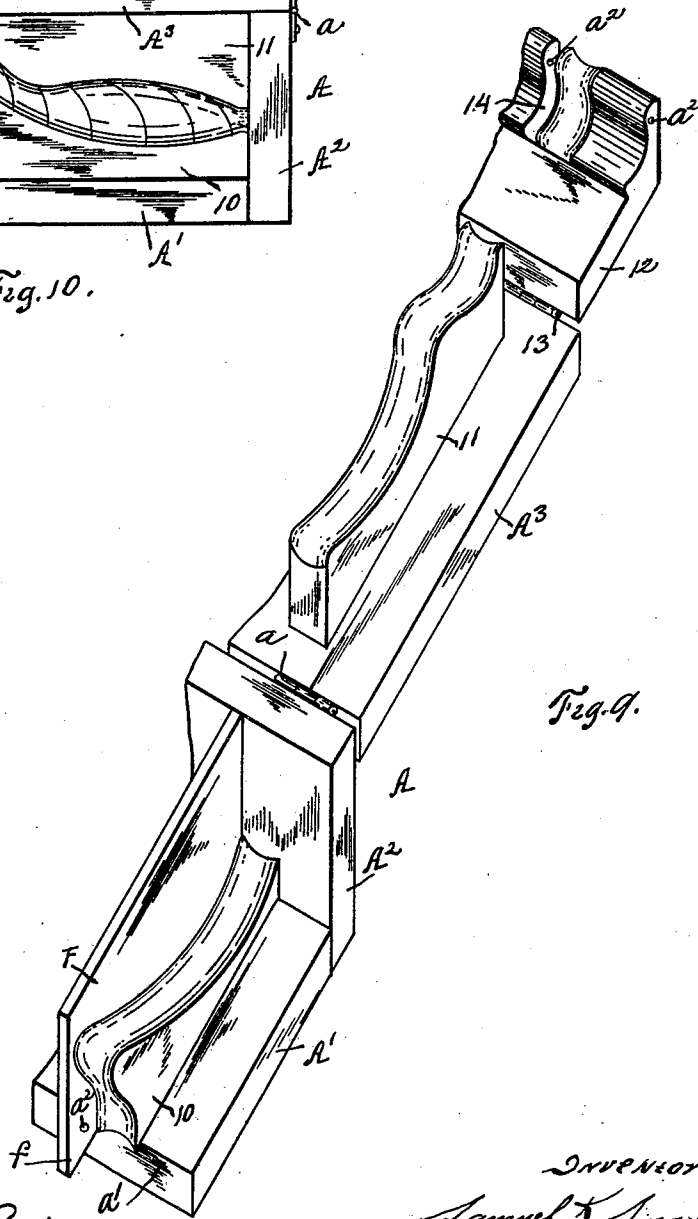


Fig. 9.

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UNITED STATES PATENT OFFICE.

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CIGAR-MOLD.

SPECIFICATION forming part of Letters Patent No. 678,986, dated July 23, 1901.

Application filed October 27, 1899. Serial No. 734,924. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL K. SNAVELY, a citizen of the United States, and a resident of Lititz, in the county of Lancaster and State of Pennsylvania, have invented certain Improvements in Cigar-Molds, of which the following is a specification.

This invention relates to improvements in that class of molds designed for shaping cigars; and the objects of the improvements are, first, to give a fanciful shape to finished cigars, and, second, to so construct a mold that the wrappers will not be broken or displaced while subjecting the cigars to the pressure of the molds.

The invention consists in the construction and combination of the various parts, as hereinafter fully described and then pointed out in the claims.

In the accompanying drawings, which form a part of this specification, Figure 1 is a perspective view of a section of a mold-box with the end removed, the lid being open and showing a mold wherein is partially embodied my invention, the swinging side of the follower being provided with a hinged flap. Fig. 2 is a side view of a mold similar to that shown in Fig. 1, the end of the mold-box being removed and the lid closed, but having the flap open; Fig. 3, a view similar to that shown in Fig. 2, but showing the flap closed; and Fig. 4, a front elevation of one end of the mold-box and mold illustrated in Fig. 1, the lid and the flap being shown in a closed position. Fig. 5 is a perspective view of a section of a mold-box having the lid open, in which box there is a special mold for each cigar, said molds being separated by partitions. Fig. 6 is a longitudinal section of the molds shown in Fig. 5, taken on broken line 6 6 of Fig. 7, the lid of the box being closed; Fig. 7, a transverse section of the molds, taken on broken line 7 7 of Fig. 6; and Fig. 8, an end elevation of a mold-box, showing a filling-block in place. Fig. 9 is a perspective view of a section of a mold-box to which are applied both the hinged flap and the removable partitions, the lid of the box being shown in an open position; and Fig. 10 is a side view of a mold similar to that shown in Fig. 9, the

end of the mold-box being removed and the lid and the flap closed.

Similar letters and numerals indicate like parts throughout the several views.

Referring to the details of the drawings, A indicates the mold-box; A', the bottom of the box open in front; A², the back, and A³ the lid hinged to the back of the box, as shown at a.

In Figs. 1 to 4, inclusive, is illustrated a form of mold partially embodying my invention. The lower mold B is permanently secured to the bottom A' of the mold-box, and the cigars to be shaped are laid longitudinally of said lower mold, extending from back A² outward toward the edge a' of said bottom A'. The stem b of lower mold B, on which rest the bodies of the cigars, is concave on a section from back A' toward edge a'. On the outer edge of lower mold B and longitudinally thereof is a rounded shoulder b', and said shoulder is connected with the vertical front b² of said lower mold by a concave curve b³, as shown in Figs. 1, 2, and 3, or said front b² may be tangent to the outer part of the curve of shoulder b', as shown in Figs. 5 and 6. The body of the upper mold or follower D is rigidly secured to lid A³ of the mold-box. The stem d of follower D, engaging the bodies of the cigars, is also concave on a section from back A² toward edge a' of the mold-box. Near the outer edge of the body of follower D is a recess d', corresponding with the rounded shoulder b' of the lower mold. To the lower portion of the swinging edge d² of follower D is hinged a flap E, as shown at e. Said swinging edge d² extends beyond shoulder b' of the mold-bed, so that when the flap E is closed and in its normal position its inner face e' forms the counterpart of front b² of the lower mold whatever may be its shape. In operating, the lid of the mold-box being open, the cigars are laid side by side on the lower mold B and the follower D is closed, but with the flap E open, as shown in Fig. 2, pressing the bodies of the cigars to the shape of the mold, and said flap is then also closed, as seen in Fig. 3, to shape the tucks of the cigars. After the flap is closed a rod E' is inserted through holes a² in said flap and in the ends

A⁴ of the mold-box to hold the flap in a closed position.

In Figs. 5 to 8, inclusive, is illustrated a construction embodying other portions of my invention and wherein there is a separate mold for each cigar, and between these molds there are grooves and a removable partition F, located in each groove. The lower molds G are permanently secured to the bottom A' of the mold-box, and said lower molds extend transversely thereof from back A³ outward toward the edge a' of said bottom. The face G' of each lower mold is concave in cross-section, and in longitudinal outline the face of the stem g of the lower mold is concave, as shown at 1 in Fig. 6. On the outer end of each lower mold G is a rounded shoulder g', connected with stem g by a concave curve g². The outer end of each lower mold may be approximately vertical to bottom A' of the mold-box, as shown by lines 3 in Fig. 6, and the ends g³ of face G' of lower mold G are drawn or sloped inward toward the body of said lower mold, for a purpose to be explained. The upper molds or followers H are rigidly secured to lid A³ of the mold-box, and they range with their respective lower molds. The face H' of each follower H is also concave in cross-section, and in longitudinal outline the face of the stem h of the follower is of the same shape as that of the lower mold. In the outer end of each follower H is a recess h', corresponding with the rounded shoulder g' of the lower mold and connected with stem h by a convex curve h². A depending lip H² is formed on the outer end of each follower, and said lips extend down in front of or lap the outer ends of the lower molds, and the inner faces thereof conform in shape with that of the lower molds, and the ends of said faces of the followers are drawn or sloped inward toward the bodies thereof, for a purpose to be described. The ends of the face of the lower mold and of the follower shown in the first four figures may also be drawn or sloped inward toward the bodies, respectively, of said lower mold and follower. The outer ends of removable partitions F may be extended beyond the front of the mold-box, as seen at f in Figs. 5, 6, 8, 9, and 10, and these extensions f may be connected by a rod M passing through openings therein, and by which rod all of said partitions can be simultaneously removed from the mold-box. The ends of the mold-box are closed by wall-sections a³ and a⁴, secured, respectively, to the bottom thereof and to the lid, and by filling-blocks a⁵, removably inserted between said wall-sections. The thickness of the filling-blocks may be varied, so as to regulate the extent to which the followers may be closed upon the lower molds, and thus the pressure upon cigars of the same thickness may be regulated, or the same amount of pressure may be exerted on cigars of different thicknesses. In operating the cigars are laid on the lower molds, and then the

lid of the mold-box is slowly closed in order that the cigars may gradually adjust themselves to the shape of the molds. After the lid is fully closed the swinging edge thereof may be secured in any well-known manner.

It is not necessary that the lid be permanently attached to the body of the mold-box, as it may be secured in place by pins at the end of the box and passing through holes in the lids, as is usual; but I prefer to hinge the lid to the back of the box, as shown. By this construction the pressure of the follower of the mold is applied successively to the different parts of the length of the cigar, and the wrapper and the filling can gradually yield themselves to the form of the mold without unduly packing portions of the fillings and straining or tearing the wrapper. Drawing or sloping inward toward the bodies thereof of the edges or ends of the faces of the lower molds and of the follower prevents those edges from catching in or injuring the ends of the cigars as the top of the mold-box is being closed or opened.

In Figs. 9 and 10 is illustrated one of my mold-boxes wherein both the hinged flap and the partitions are embodied. The lower molds 10 extend somewhat beyond bottom A' of the mold-box, and the upper molds or followers 11 range therewith. The flap 12 is hinged to the lid A³ at 13, and in the vertical portion of the flap are grooves 14, adapted to receive the ends f of the partitions F that extend beyond the lower molds.

I do not restrict myself to the shape of the molds herein shown and described, as it is evident that many alterations may be made therein without departing from the principle and scope of my invention.

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

1. The combination, in a cigar-mold, of a lower mold having the bearing-face of an end deflected from the bearing-face of the body thereof, a follower, and a flap connected with an edge of the follower through a hinge and forming the counterpart of the deflected end of the lower mold, for the purpose specified.

2. The combination, in a cigar-mold, of a lower mold having the bearing-face of the outer end deflected from the bearing-face of the body thereof, a follower connected through a hinge with the lower mold, and a flap connected through a hinge with the swinging edge of the follower and having its inner face forming the counterpart of the deflected end of the lower mold, for the purpose specified.

3. The combination, in a cigar-mold, of a lower mold having a rounded shoulder on an end of the bearing-face, the outer extremity of said bearing-face being depressed, a follower connected through a hinge with the lower mold, and a flap connected through a hinge with the swinging edge of the follower and having its inner face forming the coun-

terpart of the depressed outer extremity of the bearing-face of the lower mold, for the purpose specified.

4. The combination, in a mold-box, of a lid hinged to the mold-box, a series of lower molds on the bottom of the mold-box, a series of followers on the lid, and removable partitions separating the molds, for the purpose specified.

5. The combination, in a mold-box, of a lid, a series of lower molds on the bottom of the mold-box, a series of followers on the lid, removable partitions separating the molds and extending beyond the front of the mold-box, and a rod passing through said extensions, for the purpose specified.

6. The combination, in a mold-box, of a lid, a series of lower molds on the bottom of the mold-box and having the bearing-face of the outer end deflected from the bearing-face of the body thereof, a series of followers on the lid, a flap having a hinge connection with the followers, its inner face forming the counterpart of the deflected ends of the lower molds, and partitions separating the molds, for the purpose specified.

7. The combination, in a mold-box, of a lid hinged to the mold-box, a series of lower molds on the bottom of the mold-box and having the bearing-faces of the outer ends thereof depressed, a series of followers on the lid, a flap having a hinge connection with the swinging edges of the followers, its inner face forming the counterpart of the depressed ends of the lower molds, and removable partitions separating the molds, for the purpose specified.

8. The combination, in a mold-box, of a lid hinged to the mold-box, a series of lower molds on the bottom of the mold-box and having the bearing-faces of the outer ends thereof depressed, a series of followers on the lid, a flap having a hinge connection with the swinging edges of the followers, its inner face forming the counterpart of the depressed ends of the lower molds, removable partitions separating the molds and extending beyond the front of the mold-box, and means for simultaneously removing all said partitions, for the purpose specified.

9. The combination, in a mold-box, of a lid hinged to the mold-box, a series of lower molds on the bottom of the mold-box and having the bearing-faces of the outer ends thereof depressed, a series of followers on the lid and having the bearing-faces of the ends drawn or sloped inward toward the bodies thereof, a flap having a hinge connection with the swinging edges of the followers, its inner face forming the counterpart of the depressed ends of the lower molds and having the ends of said counterpart drawn or sloped inward toward the bodies thereof, removable partitions separating the molds and extending beyond the front of the mold-box, and means for simultaneously removing all said partitions, for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL K. SNAVELY.

Witnesses:

C. G. BASSLER,
WM. R. GERHART.