

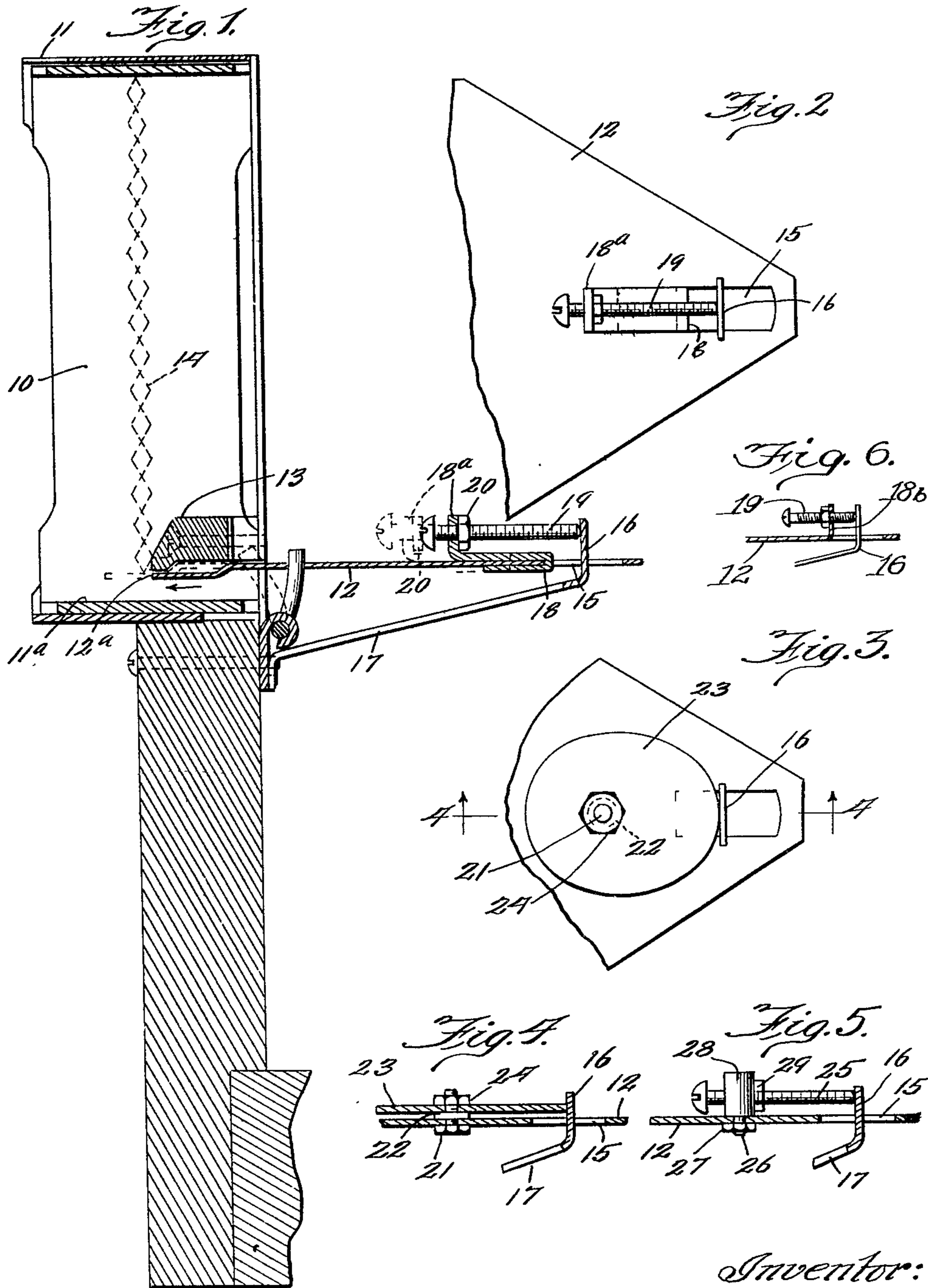
Feb. 17, 1931.

C. HOLM

1,792,692

HONEY SECTION MACHINE

Filed March 27, 1928



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UNITED STATES PATENT OFFICE

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HONEY-SECTION MACHINE

Application filed March 27, 1928. Serial No. 265,063.

My invention relates to machines employed for the fastening of honey foundations in the sections therefor, and more particularly to the machine patented by Herman Rauchfuss, Number 1,090,345, dated March 17, 1914 on combined honey section press and foundation fastener, my main object being to improve the action of the hot plate of the machine whereby to finish the section in neat form.

A further object of the invention is to provide a stop device to control the action of the hot plate to a desired limit, whereby to eliminate undesirable after effects incidents to the sealing of the foundation.

A still further object of the invention is to construct the stop device referred to with adjustable means, in order to suit the same to the variously adjusted positions of the foundation guide block.

A final, but nevertheless important object of the invention is to construct the novel stop device with few and simple parts and so design the same that it may be applied to the standard machine without particular skill.

With the above objects in view and any others that may suggest themselves from the specification and claims to follow, a better understanding of the invention may be gained by reference to the accompanying drawing, in which—

Figure 1 is a general vertical section of so much of the machine involved in the patent referred to as applies to my invention, the view being similar to Figure 4 in the patent;

Fig. 2 is a plan view of the hot plate to the extent involved by my invention;

Fig. 3 is a plan view showing one modification;

Fig. 4 is a section on the line 4—4 of Figure 3; and

Figs. 5 and 6 are sections showing two other modifications.

To those familiar with the art of fastening foundations in honey sections, and especially with the machine illustrated in the patent referred to, it will be recalled that, in accordance with the drawing, the section 10 is deposited in a frame 11, and that the hot plate 12 operates under a guide block 13 against

which the honey foundation 14 is held. The forward stroke of the hot plate meets the bottom of the foundation and the foundation being of wax, such bottom is momentarily melted, the operator quickly lowering the foundation to secure the same to the floor of the section 10. The hot plate is in the meantime permitted to recede under the guide block 13. Under present conditions, the receding frontal edge 12a draws with it a coating or deposit of the melted wax, spreading the same upon the under side of the guide block in part and permitting some to remain in suspension or possibly depend to some extent. On the next forward stroke, the edge 12a of the hot plate picks up the deposit of the guide block and carrying the excessive wax permits some to drip onto the floor 11a of the frame before the next section is deposited. The floor 11a thus becomes smeared with the residual wax and when the new section is mounted some of this wax is transferred to the bottom of the section, causing the same to become smeared and soiled. Since honey sections are made and intended to be maintained scrupulously clean, it will be seen that an unsatisfactory condition is had by the development mentioned. It has been my intention to eliminate the staining and soiling of the section in the manner stated above by employing the new stop device first referred to in a manner now to be described.

By referring to Figure 1 of the drawing, the forward stroke of the hot plate 12 is indicated by the directional arrow, the extent of this stroke being denoted by dotted lines at the left. As previously mentioned, the hot plate is caused to recede under the guide block 13, the extent being to an appreciable distance. I have found that limiting the recession of the hot plate 12 to a point flush with the front edge of the guide block 13 accomplishes my main object, and I have shown the hot plate by full lines in this position. By receding no further than the position noted, it will be realized that the residual wax is not carried under the guide block and deposited or smeared thereon, so that no accumulation of this wax can occur. In other words, if a small coating of wax remains on

the edge 12a of the hot plate 12, it will be merged into the wax foundation the next time the hot plate negotiates the latter. Thus, with no excessive coating or accumulation of wax on the edge 12a of the hot plate, there is at no time so much wax as to drip down upon the floor plate 11a of the frame. The latter remaining clean, the sections must needs remain in their original state of cleanliness when removed from the machine.

My main accomplishment is, therefore, to limit the recession of the hot plate to the position described, and this I wish to claim as new. Incidentally, I have devised a simple means to accomplish this end without altering the standard machine, but wish to state that, although I have illustrated and described this means and also two modifications thereof, I do not wish to limit myself to any particular means for stopping the hot plate at the point considered; any suitable means will come within the principle of my invention.

To describe the principal means referred to, I will first make reference to an elongated slot 15 found in the hot plate 12 of the standard machine, at the rear. This slot is now used to guide the motion of the hot plate along a cross head 16 carried by a bracket 17 projecting from the base of the machine. Since the cross head is stationary and seats in the slot 15, it steadies the forward and rearward motion of the hot plate, so as to render the front edge 12a thereof in proper alignment with the honey section and the guide block 13. In applying the novel stop device, I construct a hook 18 of stiff strip metal which I catch in the front end of the slot 15, as shown. The upper section of the hook is bent up and horizontally perforated with a tapped bore to receive a screw 19 directed from the front. To the rear of the hook bend 18a the screw receives a lock nut 20, which enables the screw to be made fast relative to the hook at any desired position in its travel. The rear end of the screw extends to meet the cross head 16, and it will be seen that by properly adjusting the screw in a forward or rearward direction, the recession of the hot plate may be limited to the point of locating the frontal edge 12a of the hot plate even with that of the guide block 13 as the end of the screw strikes the cross head 16. The adjustment of the screw is a very simple matter, since the nick in the head of the screw is readily accessible with a screw driver from the front of the section frame, and a small plier or wrench may be used with ease to tighten the lock nut 20.

Thus the novel stop device is really a variable abutment for the cross head 16, and it has occurred to me that a modification could easily be devised in the form shown in Figures 3 and 4. In this instance, I perforate the hot plate to receive a bolt 21 from below, a

washer 22 above the hot plate, an eccentric disk 23 next, and a securing nut 24 finally. The profile of the disk 23 is such as to constitute the same as an abutment in the nature of the end of the screw 19 relative to the cross-head 16. Thus, by shifting the position of the disk around in one or the other direction, the extent of the abutment is adjusted to suit, the nut 24 being tightened after the proper adjustment has been made.

The second modification employs the perforation referred to in connection with the first modification, and may be understood from Figure 5. In this instance, the replica 25 of the screw 19 is used, but a screw 26 is used as a support for the same to pass downwardly through the perforation and the securing nut 27. The head of the screw is in the form of a post 28, which is tapped in the same way as the original bend 18a, likewise receiving a lock nut 29. This modification, like that of Figs. 3 and 4, makes use of an independent perforation in the hot plate, and does not depend on the slot 15. Thus, it can be used for a machine in which the cross head 16 is disposed for the same operation, but minus a guide slot 15. Where the machine is built to include the main embodiment of my invention, the most logical method occurring to me for mounting the screw 19, etc. would be to substitute for the hook 18 and its bend 18a a tongue 18b directly struck up from the metal of the plate 12, as indicated in the modification of Fig. 6, to appear and serve as the bend 18a in the present main embodiment.

It will be seen in conclusion that my improvement makes for a neat disposal of the honey section, and eliminates the usual mess and general dissatisfaction experienced with structures of the prevailing type. As the same time, my improvement does not involve expensive or complicated parts but rather furnishes a simple attachment which may be applied in a few minutes to serve the purpose intended by my invention.

I claim:—

1. A honey foundation fastener comprising a frontal guide block, a hot plate reciprocable relative to the latter, and means to curtail the receding stroke of the hot plate whereby to prevent the forward edge thereof from passing the forward edge of the guide block.

2. A honey foundation fastener comprising a frontal guide block, a hot plate reciprocable relative to the latter, and means to limit the receding stroke of the hot plate whereby to locate the forward edge thereof substantially even with the forward edge of the guide block.

3. A honey foundation fastener comprising a support, a guide block, a hot plate movable relative to the support, and an adjustable stop for the hot plate.

4. A honey foundation fastener comprising a support, a guide block, an apertured hot plate movable relative to the support, a standard anchored in the aperture of the hot
5 plate, and a stop limited by the support.

5. A honey foundation fastener comprising a support, a guide block, an apertured hot plate movable relative to the support, a standard formed with a hook to engage the
9 hot plate by way of the aperture, and a screw disposed in the standard and adjustable relative to the support to limit the movement of the hot plate.

In testimony whereof I affix my signature.

13 CHRISTIAN HOLM.

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