

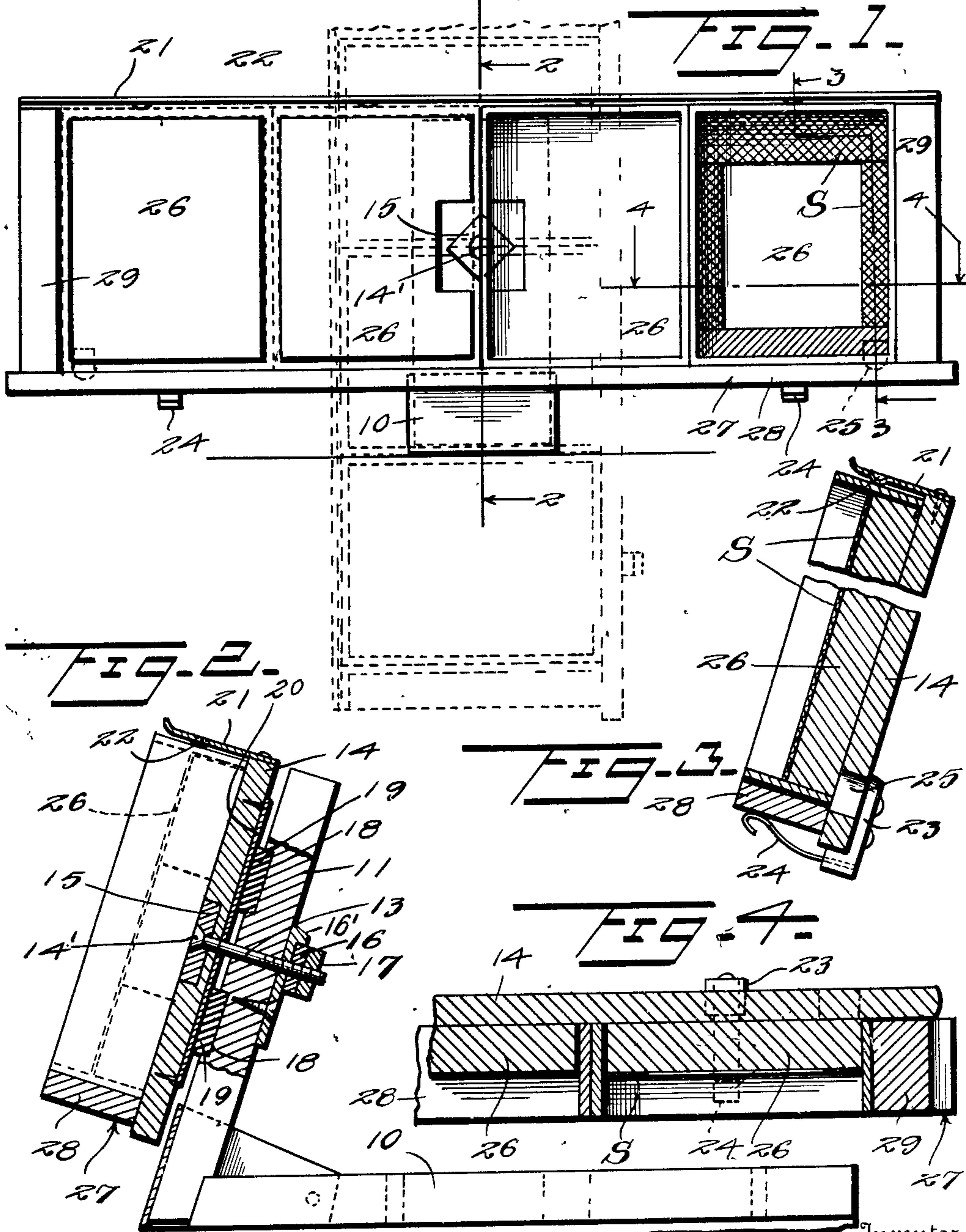
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HOLDING FRAME FOR SUPPORTING HONEY BOXES

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HOLDING FRAME FOR SUPPORTING HONEY BOXES.

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This invention relates to holding frames for supporting honey boxes and more particularly to a device for supporting honey boxes while applying foundation starters thereto.

An important object of the invention is to provide a device of this character having means for simultaneously supporting a plurality of the boxes and which enables convenient positioning of the boxes for application of the foundation starter thereto either to one or all edges of the box.

A further object of the invention is to produce a device which will permit application of the foundation starter to all edges of the box without the necessity of the operator holding the foundation starter while applying the same and without the necessity of the operator separately handling each box a number of times.

A further object of the invention is to produce a device of this character which may be readily and cheaply manufactured, which is capable of use with honey boxes of different sizes and which will be durable and efficient in service.

These and other objects I attain by the construction shown in the accompanying drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention and wherein:

Figure 1 is a front elevation showing apparatus constructed in accordance with my invention, the apparatus being illustrated in solid lines in the position permitting convenient application of the foundation starter to the lower edges of the boxes and in dotted lines in the position permitting application of the foundation starter to a side edge of the boxes;

Figure 2 is a section on the line 2—2 of Figure 1;

Figure 3 is a section on the line 3—3 of Figure 1;

Figure 4 is a section on the line 4—4 of Figure 1.

Referring now more particularly to the drawings, the numeral 10 indicates a base adapted to rest upon and be secured to a suitable support. Extending upwardly from one end of the base at an angle other

than at a right angle thereto is an arm 11 through which is directed a pivot bolt 13 rotatably connecting to the arm a table 14, so that this table may swing in a plane at an acute angle to the base 10. The pivoted bolt 13 preferably has a head 14' seated in a bearing provided by a metallic insert 15 carried by the table and is held against rotation with relation to the arm 11 by a nut 16 and lock nut 17. The rear face of the arm 11 has attached thereto a plate 16' having engagement with the nut 16, holding the same against rotation. The table confronting face of the arm 11 is formed with sockets 18 having arranged therein blocks of friction material 19 which engage against the wear plate 20 carried by the adjacent face of the table. This serves to hold the table in adjusted positions, so that the operator may apply the foundation starter to a selected side or sides of the box.

The front face of the table 14 has applied thereto along one edge thereof a stiffly resilient metallic strip 21, which projects outwardly from the front face and adjacent its free edge is formed with small lugs 22. The opposite edge of the table has secured thereto a pair of holders 23 bearing spring clips 24. In the table adjacent the last named edge thereof, a pair of openings 25 are formed and the holders 23 may be secured to the table at these openings, so that the spring clips 24 extend therethrough, if so desired. This arrangement is employed where small honey boxes are being equipped with the foundation starter and it will, of course, be understood that under these circumstances, the blocks 26 employed will be of smaller size, so that the openings 25 will be exposed.

Secured to the outer face of the table are a plurality of blocks 26, each of the blocks being of substantially the same external dimensions as the internal dimensions of the honey box with which the device is to be employed. In the present illustration, the construction is shown as adapted for use with large size honey boxes and the holders 23 and clips 24 are arranged at the edge of the table. Where the smaller sized honey boxes are employed, these clips will be ar-

ranged in the openings 25. The blocks 26 are spaced apart longitudinally of the table a distance equal to twice the thickness of the material from which the honey boxes are formed. In employing the apparatus, a superframe unit 27 is used, a group of the honey boxes, four in number, being placed within this frame. The superframe consists simply of a base 28 and ends 29, the honey boxes fitting loosely between the ends, so that when a slight pressure is applied to these ends, the honey boxes will be tightly held. The base 28 of this superframe is placed against the spring clips 24 and these clips forced downwardly until the honey boxes can be placed over the blocks 26. The superframe and boxes are then forced against the face of the table and released, at which time the spring clips will urge the superframe and honey boxes upwardly until the lugs 22 engage against the honey boxes with sufficient friction to prevent accidental displacement thereof.

Assuming that the structure is in the position illustrated in Figure 1, when the honey boxes and superframe are applied, strips of the foundation starter S may be applied thereto along the lower edges thereof, these strips being simply cut to their proper length and laid in the boxes. Since the boxes are disposed at an angle, as more clearly illustrated in Figure 2, both hands of the operator are left free for the manipulation of the iron by means of which this starter is heated, to cause it to adhere to the wall of the honey box. After the strips have been applied to the lower edges, the table may be rotated through either 90° or 180°, depending upon whether the foundation starter is to be applied to all edges or only to opposite edges of the boxes. It will be obvious that when the foundation has been applied to the boxes, the operator, by grasping the ends 29 of the superframe and forcing the same inwardly, will cause the boxes to bind against one another, so that the superframe and boxes may be removed as a unit.

Since the construction hereinbefore set forth is capable of a certain range of change and modification without materially departing from the spirit of the invention, I do not limit myself to such specific structure except as hereinafter claimed.

I claim:—

1. In a device for holding honey boxes while applying foundation starter strips thereto, a base, a table supported from the base to rotate in a plane at an acute angle to the base, the upper face of the table having a plurality of blocks attached thereto and adapted to interiorly fit the honey boxes and means for yieldably maintaining the honey boxes in engagement with said blocks.

2. In a device for holding honey boxes while applying foundation starter strips

thereto, a base, a table supported from the base to rotate in a plane at an acute angle to the base, the upper face of the table having a plurality of blocks attached thereto and adapted to interiorly fit the honey boxes, means for yieldably maintaining the honey boxes in engagement with said blocks and means for frictionally maintaining the table in adjusted positions about the pivot thereof.

3. In a device for holding honey boxes while applying foundation starter strips thereto, a base, a table supported from the base to rotate in a plane at an acute angle to the base, the upper face of the table having a plurality of blocks attached thereto and adapted to interiorly fit the honey boxes, means for yieldably maintaining the honey boxes in engagement with said blocks including a stiffly resilient element extending along one edge of the table and means at the opposite edge of the table for urging the boxes toward said stiffly resilient member.

4. In a device for holding honey boxes while applying foundation starter strips thereto, a base, a table supported from the base to rotate in a plane at an acute angle to the base, the upper face of the table having a plurality of blocks attached thereto and adapted to interiorly fit the honey boxes, means for yieldably maintaining the honey boxes in engagement with said blocks including a stiffly resilient element extending along one edge of the table, and against which corresponding edges of the honey boxes are adapted to engage, a frame having a base to simultaneously engage the lower edges of the honey boxes and ends to engage the end faces of the endmost honey boxes and means at the opposite edge of the table and engaging the base of said frame for urging the frame and honey boxes toward said stiffly resilient element.

5. In a device for holding honey boxes while applying foundation starter strips thereto, a base, an arm extending from the base, a table pivoted to the arm to swing in a plane at an acute angle to the base, the upper face of the table having a plurality of blocks attached thereto and adapted to interiorly fit the honey boxes and friction elements carried by the confronting face of the arm and engaging the table for yieldably maintaining the table in adjusted positions upon the arm.

6. A device for holding honey boxes while applying foundation starter strips thereto comprising a rotatable table swinging in a plane at an angle to the vertical and honey box holding blocks carried by the upper face of the table.

7. A device for holding honey boxes while applying foundation starter strips thereto comprising a rotatable table swinging in a plane at an angle to the vertical, honey box holding blocks carried by the upper face of

the table and means for yieldably maintaining honey boxes in engagement with said blocks.

8. A device for holding honey boxes while
5 applying foundation starter strips thereto comprising a rotatable table swinging in a plane at an angle to the vertical, honey box holding blocks carried by the upper

face of the table and means for yieldably maintaining honey boxes in engagement with
said blocks including a part shiftable to
10 simultaneously release all of the boxes.

In testimony whereof I hereunto affix my
signature.

WILLIAM A. SHOOK.