

1,369,190.

Patented Feb. 22, 1921.
 2 SHEETS—SHEET 1.

FIG. 1.

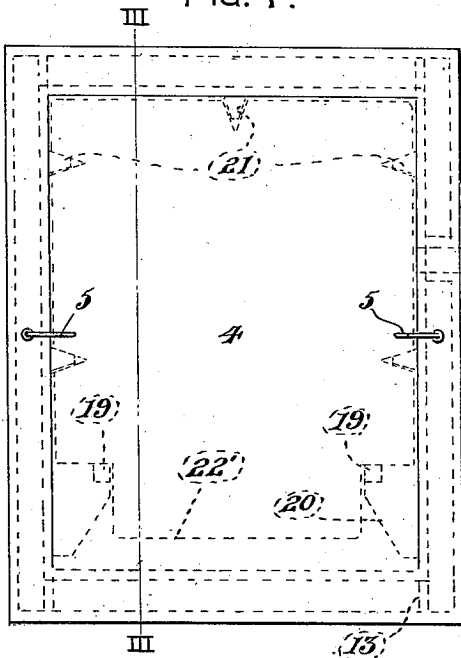


FIG. 2.

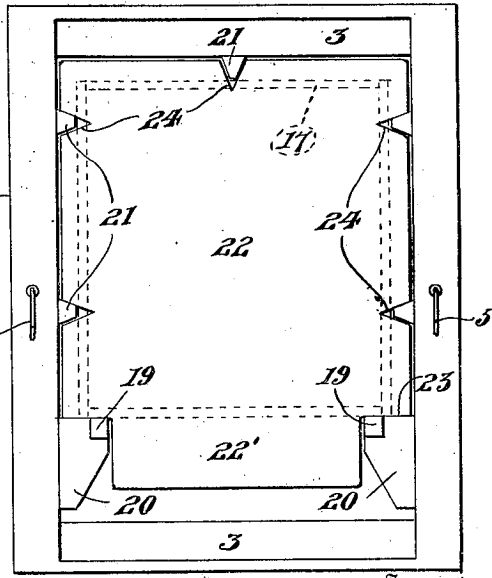
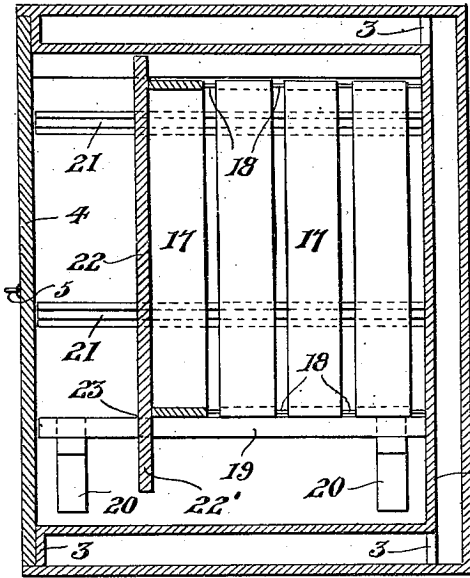
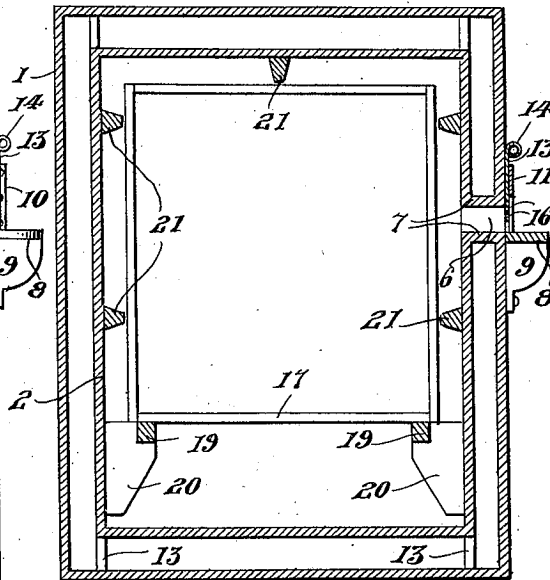


FIG. 3.

FIG. 4.

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FIG. 5.

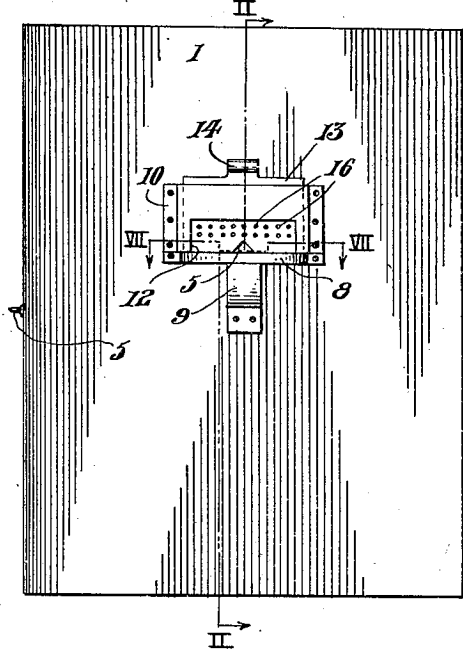


FIG. 6.

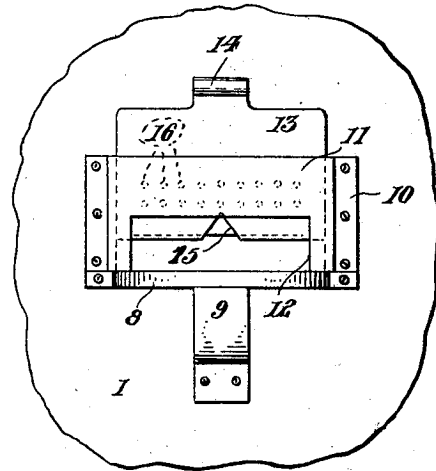


FIG. 7.

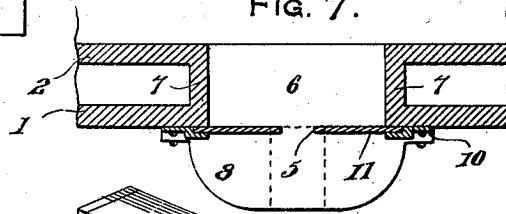


FIG. 8.

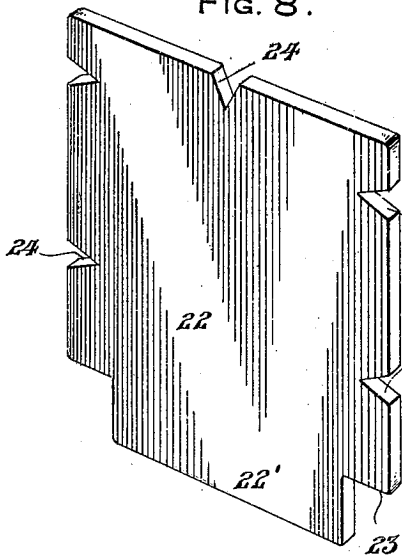
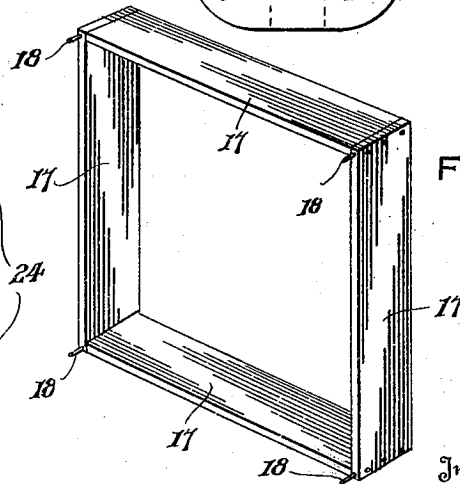


FIG. 9.



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DMYTRO PODHAJNY, OF ALGOMA, WEST VIRGINIA.

BEEHIVE.

1,369,190.

Specification of Letters Patent. Patented Feb. 22, 1921.

Application filed July 15, 1920. Serial No. 396,485.

To all whom it may concern:

Be it known that I, DMYTRO PODHAJNY, a citizen of Ukraine, residing at Algoma, in the county of McDowell and State of West Virginia, have invented certain new and useful Improvements in Beehives, of which the following is a specification.

This invention relates to certain new and useful improvements in bee hives.

The primary object of the present invention resides in the provision of a bee hive or apiary wherein the box or house is formed of double-hole construction to exclude the penetration of cold air and insure a substantially heated interior for the house.

The invention has for a further object to provide an apiary with racks therein for slidably receiving the usual rectangular honey comb frame while an end plate engages the outwardly positioned comb frame to prevent egress of cold air to circulate about the comb frames.

With the above and other objects in view, the invention consists in the novel form, combination and arrangement of parts hereinafter more fully described in connection with the accompanying drawings and in which like reference characters indicate similar parts throughout the several views.

In the drawings,

Figure 1 is a front elevational view of an apiary constructed in accordance with the present invention,

Fig. 2 is a vertical cross sectional view taken on line II—II of Fig. 5 showing the comb frames slidably mounted upon the supporting racks and the platform beneath the bee entrance opening,

Fig. 3 is a vertical cross sectional view taken on line III—III of Fig. 1 showing the guard plate engaging the outer side of the end comb frame,

Fig. 4 is a front elevational view of the apiary with the closure door removed and showing the guard plate supported on the comb racks,

Fig. 5 is a side elevational view of the apiary showing the bee entrance opening closed by the apertured gate,

Fig. 6 is an enlarged fragmentary elevational view showing the closure gate moved to open position,

Fig. 7 is a cross sectional view taken on line VII—VII of Fig. 5 showing the sliding gate mounted in the opposite guides,

Fig. 8 is a perspective view of the shift-able comb frame engaging the plate, and

Fig. 9 is a perspective view of one of the comb frames, showing the spacing pins carried by the corners of the frames.

Referring more in detail to the accompanying drawing, there is illustrated an apiary comprising a housing formed of spaced outer and inner walls 1 and 2 respectively, the walls being maintained in spaced relation by the members 3 carried by the inner wall, the front side of the casing, as shown in Fig. 1, 3, and 4 being opened, and closed by a removable door 4 maintained in the assembled position shown in Fig. 3 by the closure hooks 5.

The bee entrance opening to the casing is more clearly shown in Figs. 5 to 7 wherein the spaced walls 1 and 2 are provided with an opening 6 surrounded by the wall 7 connecting the spaced walls as shown in Figs. 2 and 7 with a horizontal platform 8 carried by the outer face of the wall 1 and supported upon a bracket 9. A guide frame of the type best illustrated in Figs. 5 to 7, embodies end mounting strips 10 secured by suitable fastening devices to the wall 1 at opposite sides of the opening 6 with the intermediate plate portion 11 offset and having the lower portion thereof cut away as at 12 in registry with the opening 6, the offset portion 11 providing a guide for the sliding gate 13 having a hand grip 14 at its upper edge and a V-shaped notch 15 formed in the lower edge thereof so that when the gate 13 is lowered to the position shown in Fig. 5, the notch 15 provides a constant restricted opening for the passage of the bees through the entrance opening 6. In order to provide for a restricted circulation of air within the apiary, the gate 13 is provided with a plurality of apertures 16 as shown in Figs. 5 and 6.

The usual form of honey comb frame is employed in connection with this apiary and is of rectangular formation as shown in Fig. 9 having side walls 17, the four corners of the frame at one side thereof carrying spacing pins 18 that are adapted for engagement with an adjacent comb when arranged within the casing to provide for the proper spacing of the comb frames therein. A pair of oppositely positioned rails 19 are arranged within the casing and are supported upon opposite side walls thereof by the mounting brackets 20, the comb

frames 17 being slidably mounted upon the rails 19 to assume the position shown in Figs. 2 and 3 with the combs entirely supported on the rails and maintained centrally positioned within the casing by the tapered ribs 21 carried by the inner faces of the inner walls 2 while the pins 18 retain the comb frames in separated positions.

The apiary being of double-wall construction to provide for a ready maintenance of the heated air within the same, there is provided an end closure plate 22 of the type best illustrated in Figs. 4 and 8, closely associated with the comb frames 17 and arranged inwardly of the closure door 4 as shown in Fig. 3, the plate 22 being cut away at its lower corners to provide a depending leg 22' and lateral supporting shoulders 23 that rest upon the side rails 19, while the opposite sides and upper edge of the plate 22 are provided with a series of V-shaped notches 24 that are slidably received on the tapered guide ribs 21, thus to close the side of the apiary adjacent the door 4, when said door is opened.

From the above detailed description, it is believed that the construction and operation thereof will at once be apparent, it being noted that the gate 13 having the V-shaped notch 15 in the lower end thereof provides for a constant entrance opening for the bees while the perforations 16 in the gate assures a mild circulation of air. If desired, the

gate 13 may be elevated to the position shown in Fig. 6 to provide a wider entrance opening for the bees. In mounting the comb frames within the casing, the door 4 is removed and the frames slid upon the guide rails 19 to a position adjacent the opposite wall and spaced from said wall by the pins 18. When the desired number of frames have been arranged within the casing, the closure plate 22 is mounted on the guide rails with the guide ribs 21 received in the plate notches 24 to provide a substantial closure for the end of the casing.

While there is herein shown and described the preferred embodiment of the invention, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

What is claimed as new is:

A bee hive comprising a double walled casing having a bee entrance opening in one side thereof, a closure door for the casing, opposite comb supporting rails within the casing, guide ribs carried by the inner face of the sides and top wall of the casing, and a guard plate within the casing adjacent the closure door and in proximity of the end comb, with edge notches formed therein for receiving the guide ribs, and a guide leg depending between the rails.

In testimony whereof I affix my signature.
 DMYTRO PODHAJNY.