No. 818,270. PATENTED APR. 17, 1906.

G. W. MANN.

BEEHIVE.

APPLICATION FILED NOV. 14, 1905.

2 SHEETS—SHEET 1.

Fig. 1.

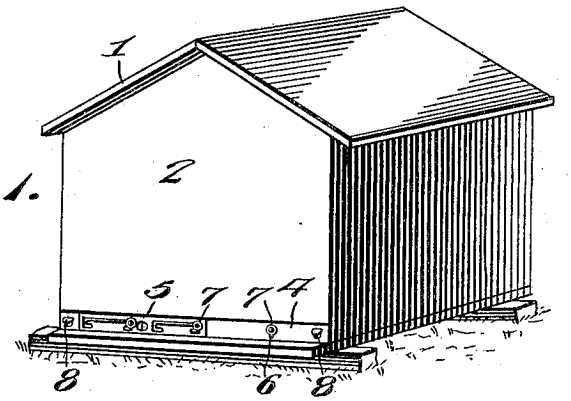


Fig. 2.

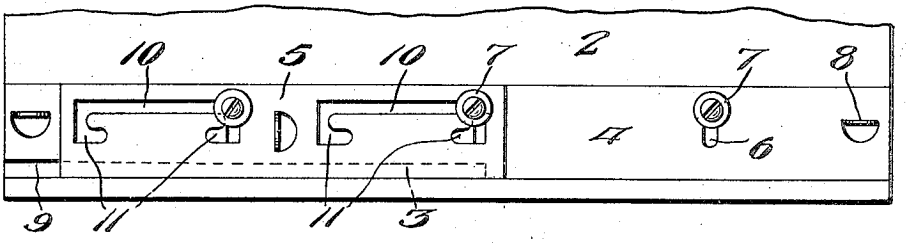


Fig. 3.

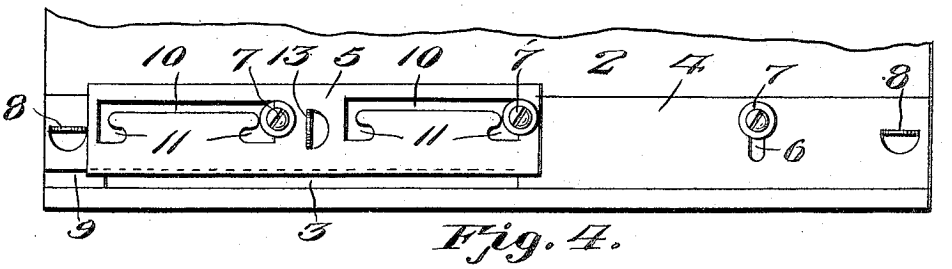
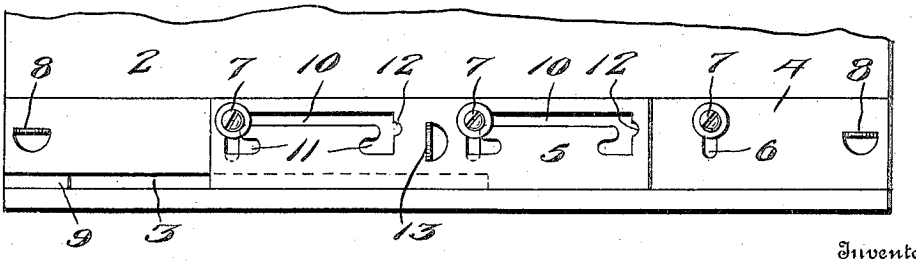


Fig. 4.



Inventor

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Witnesses

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2 SHEETS—SHEET 2.

Fig. 5.

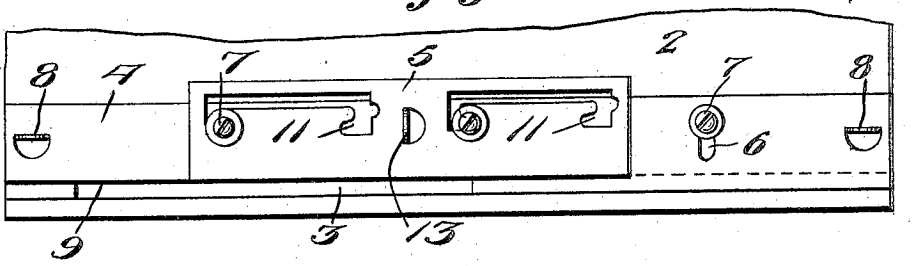


Fig. 6.

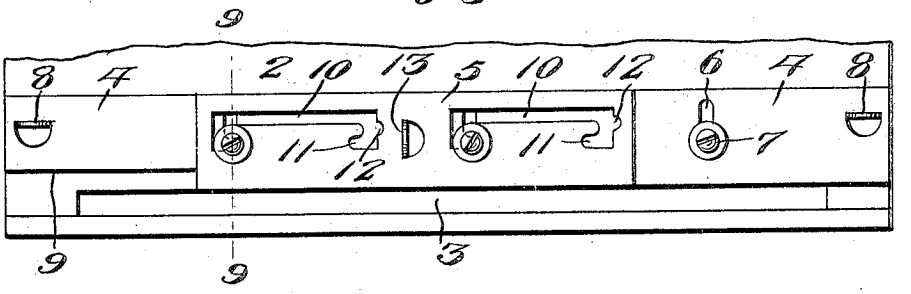


Fig. 7.

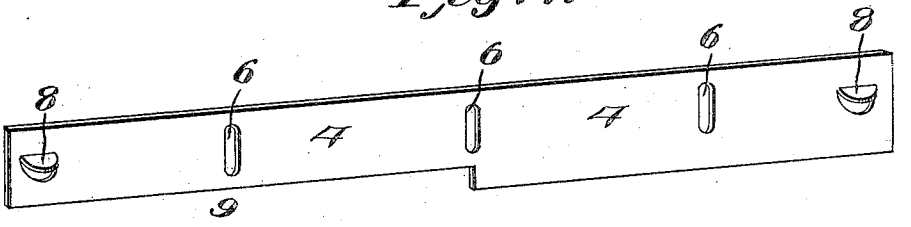


Fig. 8.

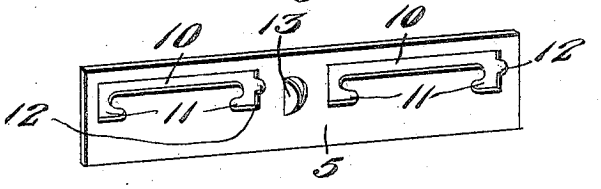
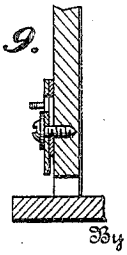


Fig. 9.



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UNITED STATES PATENT OFFICE.

GEORGE W. MANN, OF SAN LUIS OBISPO, CALIFORNIA.

BEEHIVE.

No. 818,270. Specification of Letters Patent. Patented April 17, 1906.

Application filed November 14, 1905. Serial No. 287,369.

To all whom it may concern:

Be it known that I, GEORGE W. MANN, a citizen of the United States, residing at San Luis Obispo, in the county of San Luis Obispo and State of California, have invented new and useful Improvements in Beehives, of which the following is a specification.

This invention relates to beehives, and especially to an improved closure therefor, having for its objects to produce a comparatively simple inexpensive device of this character which may be readily installed for use, one which may be conveniently adjusted for varying the size of the hive-opening as circumstances may require, and one which may be properly arranged to control the ingress and egress of either the neuter bees or drones.

With these and other objects in view the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a perspective view of a hive equipped with a closure embodying the invention. Fig. 2 is an enlarged view in elevation of the device, showing the same in closed position. Fig. 3 is a similar view showing the parts arranged to permit ingress and egress of the neuter bees and with the doorway opened throughout its entire length. Fig. 4 is a similar view showing the doorway closed throughout a portion of its length. Fig. 5 is a similar view showing a different arrangement of the slots or closures with the auxiliary slide in fully-opened position. Fig. 6 is a similar view showing both slides or closures adjusted for wholly opening the doorways, and the latter adapted for the passage of drones. Fig. 7 is a perspective view of the main slide or closure. Fig. 8 is a similar view of the auxiliary slide or closure. Fig. 9 is a detail sectional view taken on the line 9 9 of Fig. 6.

Referring to the drawings, 1 designates a hive of usual construction embodying a wall 2, provided with a doorway 3 for admitting entrance of the bees to and their exit from the hive, said doorway being extended throughout substantially the entire width of the wall 2.

For closing the opening 3 I employ a main slide or closure 4 and an auxiliary slide or closure 5, these slides being struck or otherwise formed from sheet metal and of which the slide 4 is provided at spaced intervals throughout its length with transversely-extending slots 6, designed to receive fastening members or screws 7, by means of which it is attached to the wall 2 and adapted for vertical movement, there being struck from the ends of the slide outturned finger-pieces or lips 8, designed for engagement when operating the slide, which, it will be noted, moves in a vertical plane and has its normally lower edge cut away or recessed at 9 throughout substantially half the length of the slide, this recess being of a depth or width somewhat less than the height of the doorway 3 for a purpose which will hereinafter appear. The auxiliary closure or slide 5, which is also secured to the wall 2 by means of a pair of fastening-screws 7, is provided with a pair of spaced longitudinally-extending slots 10 to receive said screws, each of said slots being terminated at its ends in substantially L-shaped portions or slot extensions 11, while the extensions 11 at the right-hand ends of the slots 10 are semicircularly recessed at 12 when the slide is moved fully toward the left and in partially-open position, as seen in Fig. 3. Struck from the slide 11 at a point between the slots 10 is an outturned finger portion or lip 13 for engagement in manipulating the slide.

In practice half of the opening 3 is normally closed by the slide 4, the remaining half being closed by the slide 5, which covers the opening produced by the recess 9. When the parts are adjusted as seen in Fig. 3, the doorway 3 is opened throughout substantially half of its length, this opening being of a width or height to permit ingress or egress of the neuter bees, under which conditions the closure or slide 5 will be retained against movement, owing to engagement of the screw 7 in the recess 12, as before explained. When, however, it becomes desirable to reduce the length of the opening through which the neuter bees may pass into and out of the hive, the slide 5 is moved to the position illustrated in Fig. 4, with the screws 7 lying at the left-hand ends of the slots 10, it being understood that a proper variation in the length of this opening may be obtained by longitudinal movement of the slide 5. When it is desired to wholly open the doorway 3 for permitting free passage of the drones, the auxiliary slide 5 is first raised and locked in such position by slight longitudinal movement sufficient to seat the screws 7 in the slot extensions 11, as seen in Fig. 6, after which the main slide 4 is raised vertically

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