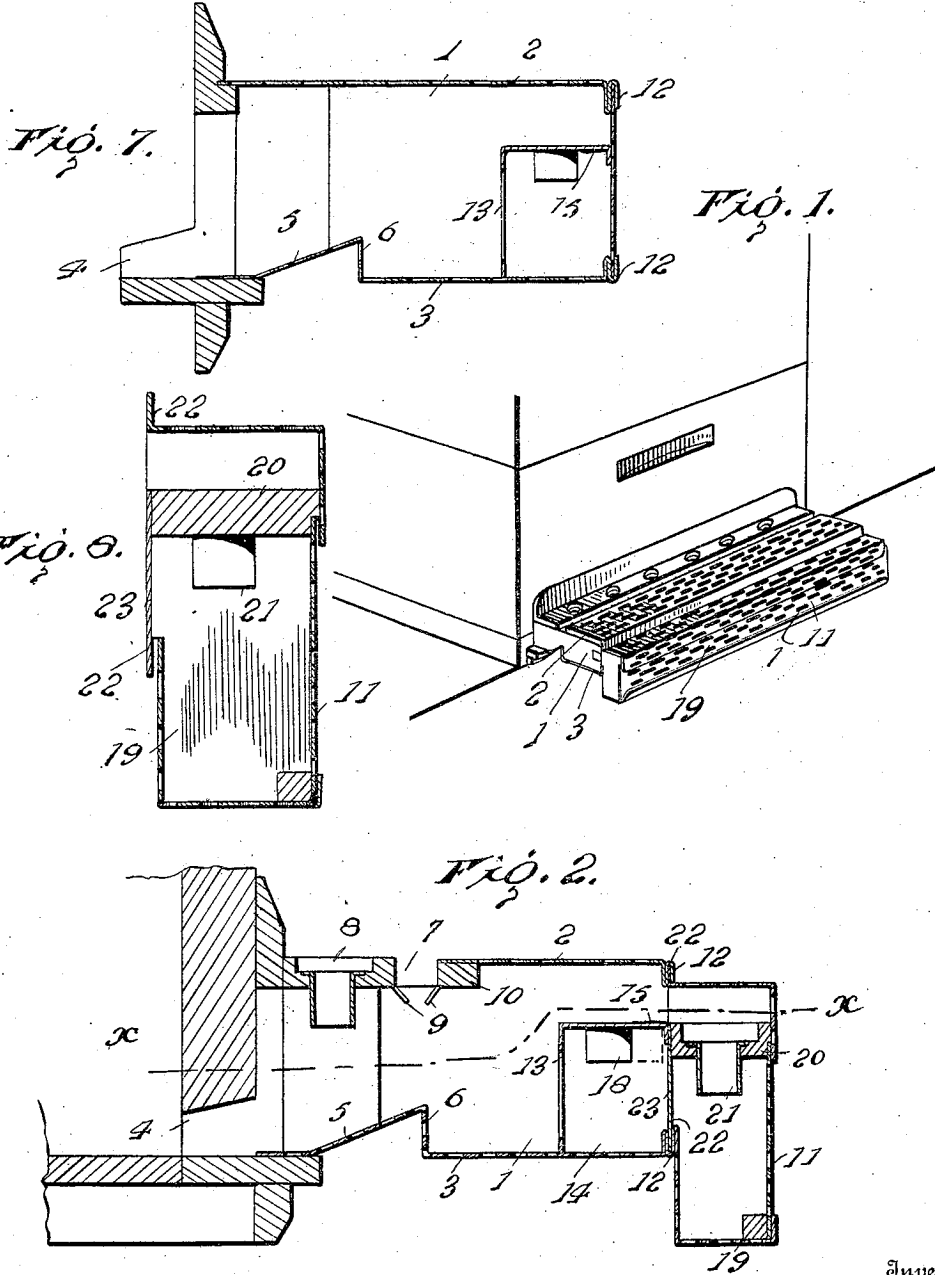


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F. H. SAFFELL.
TRAP FOR BEEHIVES.
APPLICATION FILED APR. 21, 1906.

2 SHEETS—SHEET 1.



Inventor
F. H. Saffell

Witnesses

L. T. Measer,

W. P. Woodson

By

A. D. Macy, Attorneys

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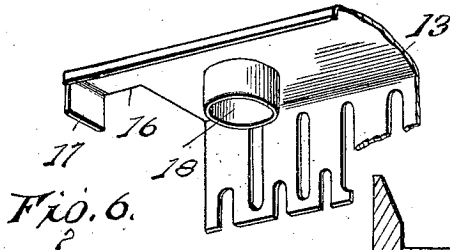


Fig. 3.

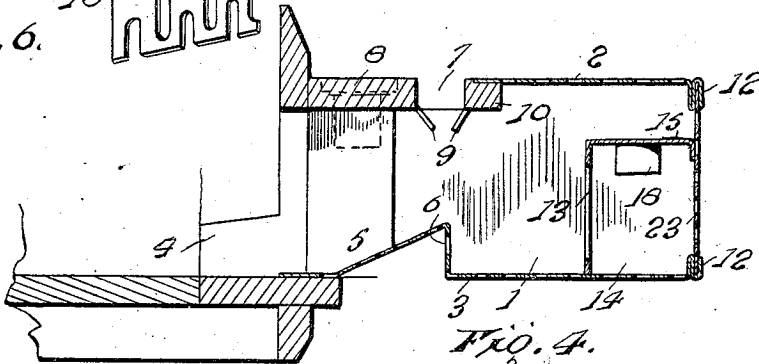


Fig. 4.

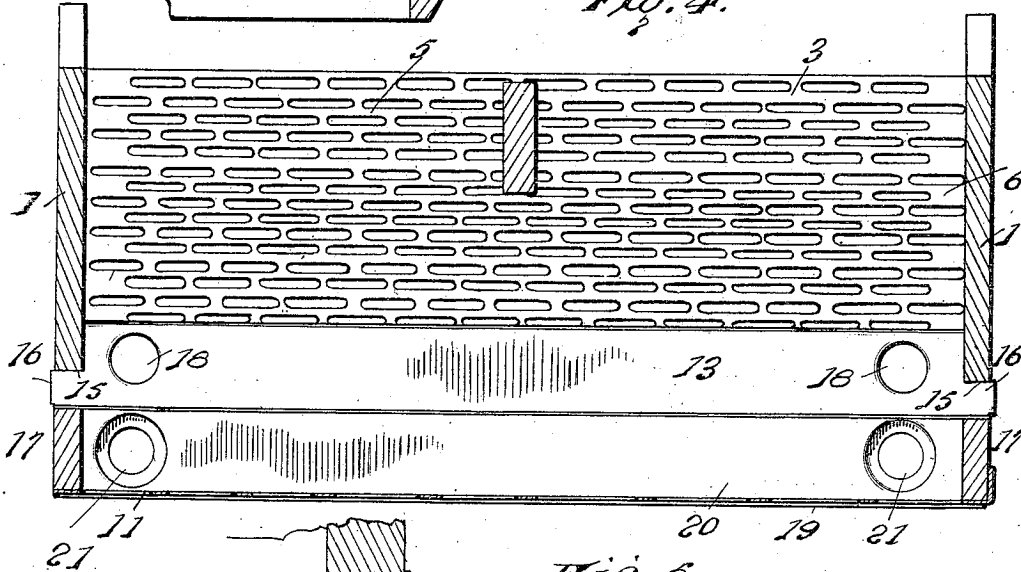
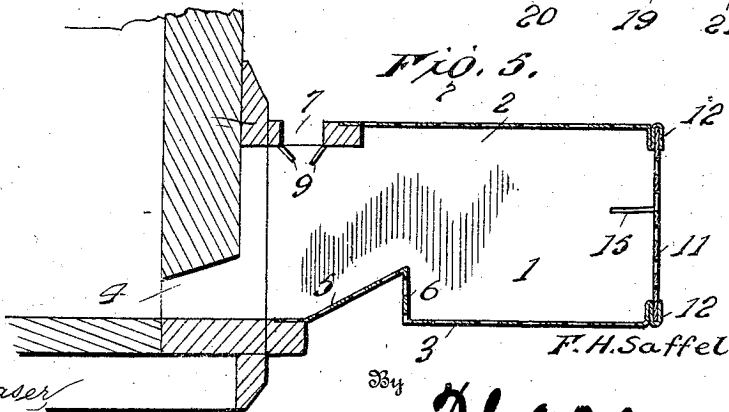


Fig. 5.



Witnesses

A. T. Measery
W. P. Hodson

Inventor

F. H. Saffell

By

R. H. Carey, Attorneys

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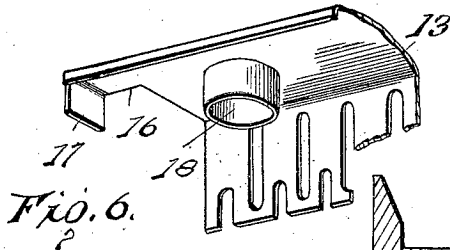


Fig. 3.

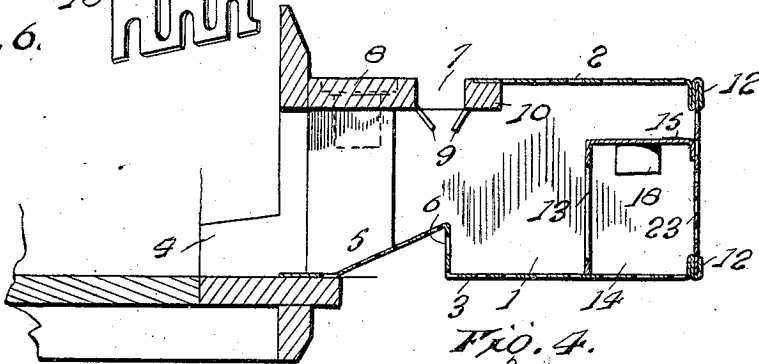


Fig. 4.

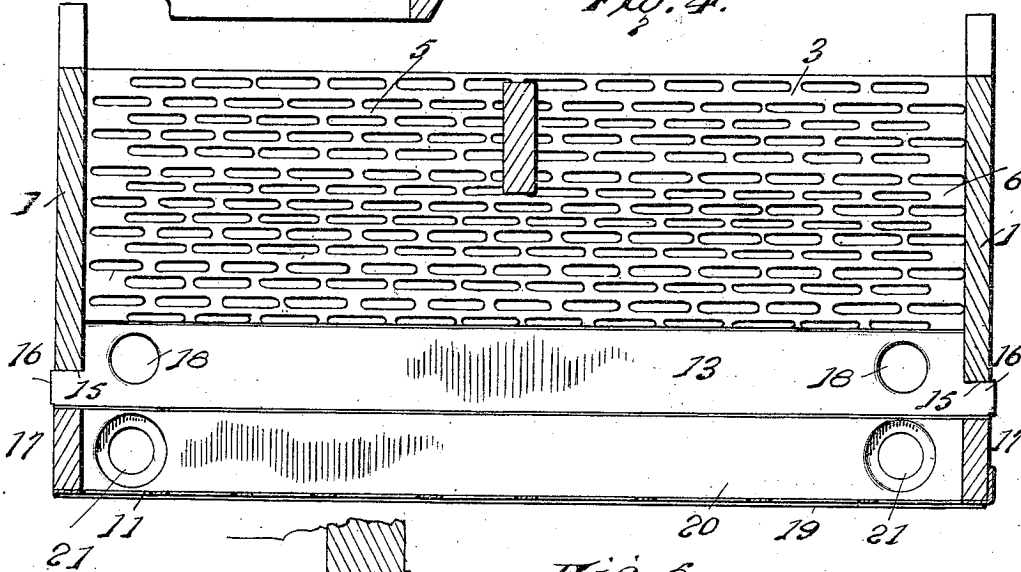
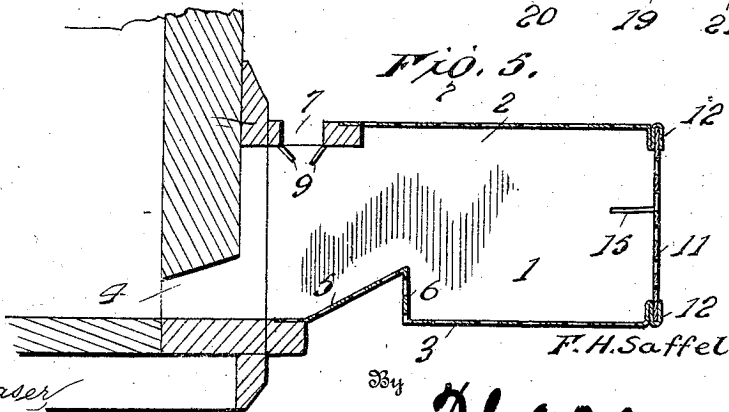


Fig. 5.



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By

R. H. Carey, Attorneys

tom 3 and the outer edge of the horizontal wing coming close to the front of the frame or box so as to meet the slide 11 or inner wall of the supplemental trap and form the compartment 14 into which the queen bee or drones are confined when trapped. The end pieces 3 have cuts 15 extended inward a short distance from their outer edges to receive terminal extensions 16 of the trap partition so as to retain the latter in place. The extensions 16 are located near the outer corners of the horizontal wing of the trap partition, the ends of said extensions 16 being bent to provide lips 17 which embrace the outer sides of the end pieces 3 so as to prevent longitudinal movement of the trap partition. The trap partition 13 is readily removable, the extensions 16 being freely slidable in and out of the cuts 15. The lips 17 do not in any manner interfere with the removability of the trap partition, but serve simply to prevent appreciable longitudinal play thereof when the partition is slipped into place. The horizontal wing or portion of the trap partition is plain and devoid of openings or slots, whereas the vertical portion is slotted or formed with openings of a size corresponding to the openings or slots formed in the top and bottom of the main structure or frame to admit of free ingress and egress of the worker bees. Guarded openings 18 are provided in the horizontal portion of the trap partition to admit of the queen bee and drones passing therethrough, but preventing their exit from the compartment 14 because of the peculiarity of the bees not to crawl downward and around the lower ends of the tubes pendent from the openings 18 and thence upward through said openings, the latter being of a size to prevent the bees passing therethrough on the wing. When the trap partition is removed the queen bee and drones have unobstructed passage between the hive and main frame or structure, as indicated most clearly in Fig. 5, but when the partition is in place, the queen bee and drones entering the compartment 14 through the guarded openings 18 are confined to be disposed of as may be desired. The guarded openings 8 may be dispensed with, as shown in Fig. 5, and the board 10, together with the guarded openings 7 and 8, may be omitted and the slotted plate 2 continuous from front to rear of the structure, as shown in the modification illustrated in Fig. 6.

A supplemental trap 19 forms a part of the device and is removable to admit of disposing of the trapped bees without necessitating the removal of the entire structure from the hive. The supplemental trap comprises a frame or structure of box-like formation and comprising end pieces, preferably of wood, and sides of slotted sheet metal such as employed in the formation of the main structure or frame. The horizontal partition 20

is arranged close to the top of the frame or structure of the supplemental trap and divides the same into upper and lower compartments, the latter forming the trap proper, whereas the former constitutes an entrance thereto. The partition 20 is preferably of wood and is provided at intervals with guarded openings 21 similar to the guarded openings 8 and designed to admit of the queen bee and drones passing into the trap 19. The front side of the trap 19 is closed by the slide 11 when the supplemental trap is in position, said slide being removed from the guides 12. Vertically arranged flanges 22 provided at the rear of the supplemental trap are adapted to cooperate with the guides 12 and retain the supplemental trap in position. The upper flange 22 is formed by bending a longitudinal edge portion of the top of the frame in an upward direction, whereas the lower flange 22 is formed by the lower edge portion, a plate 23 forming the upper portion of the rear side of the structure, said plate forming the front wall of the compartment 14 when the supplemental trap is in position and preventing direct passage from the main and the supplemental traps. When it is required to move the supplemental trap a slide 11 is slipped into the guides 12 as the supplemental trap is withdrawn from said guides, and when the supplemental trap is removed, the structure has the appearance as shown in Fig. 3.

Having thus described the invention, what is claimed as new is:

1. In a trap device for bee hives, the combination of a box-like structure having cuts extended inwardly from the outer edges of its opposite ends, and a removable trap partition having end extensions freely slidable into and out of said cuts and adapted to secure the trap partition when slipped into place.

2. In a trap device for bee hives, the combination of a box-like structure having inwardly extended cuts in opposite ends, and a trap partition having end extensions to slide into said cuts and retain the trap partition in place, said end extensions having their outer terminal portions bent to provide flanges to embrace outer sides of the end pieces to prevent longitudinal movement of the trap partition.

3. In a trap device for bee hives, the combination of a box-like structure and a removable trap partition arranged therein to provide a confining compartment or to admit of unobstructed passage between the hive and all portions of the box-like structure, said partition comprising angularly disposed wings which, with corresponding sides of the structure, form inclosing walls of the trap compartment.

4. In a trap device for bee hives, the combination of a box-like structure, a removable

trap partition provided in its top side with entrance openings, and inner smooth-faced tubes pendent from said openings to admit of the bees dropping therethrough, but preventing their exit therethrough.

5. A trap device for bee hives, the same comprising a box-like structure having its outer side open, a trap partition removably fitted within the structure through the open side thereof and comprising angularly disposed wings, and means for closing the open side of said structure as well as the open side of the trap partition and retaining the latter in place.

6. A trap device for bee hives comprising a box-like structure having its front side open, a supplemental trap slidably fitted to the open side of the main structure and having its front side open, and a slide adapted to close either the open side of the main structure or the open side of the supplemental trap.

7. A trap device for bee hives comprising a main box-like structure and a supplemental box structure removably fitted thereto, an imperforate wall separating the lower

portion of the main structure from the supplemental structure, the two structures having unobstructed intercommunication at their upper portions.

8. In a trap device of the character specified, the combination of a main box-like structure having an opening in its front side, a removable trap partition forming a compartment adjacent to said open side, a supplemental box-like structure removably fitted to the main side of the box-like structure and separated from the compartment inclosed by the trap partition by means of an imperforate plate, and a partition subdividing the supplemental structure into upper and lower compartments, the upper compartment having free communication with the upper portion of the main structure, and said partition being provided with guarded openings.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK H. SAFFELL. [L. s.]

Witnesses:

V. B. HILLYARD,
J. D. YOAKLEY.