

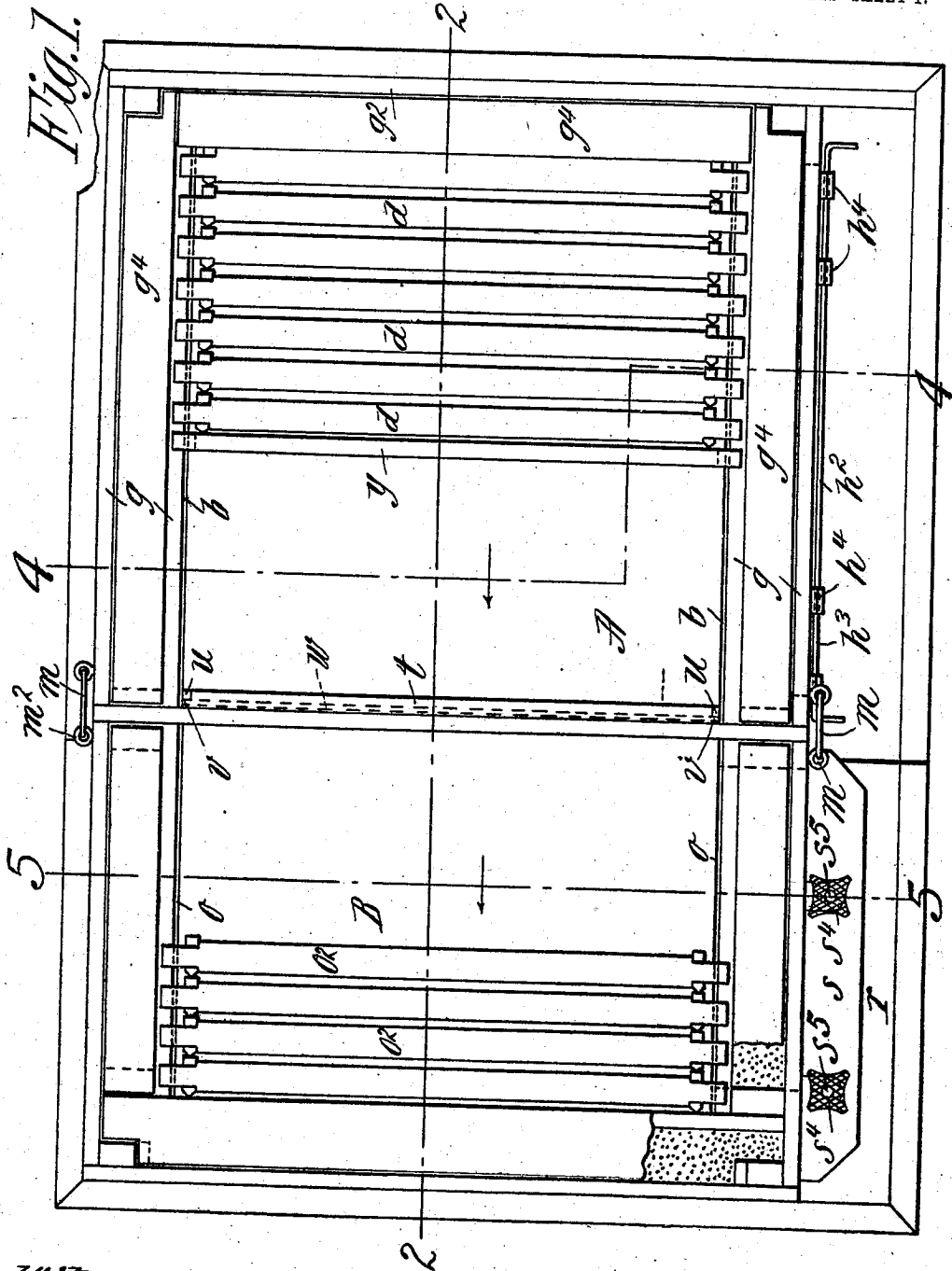
No. 867,919.

PATENTED OCT. 8, 1907.

L. H. KESELER.
BEEHIVE.

APPLICATION FILED MAY 6, 1907.

3 SHEETS—SHEET 1.



Witnesses:
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3 SHEETS—SHEET 3.

Fig. 4.

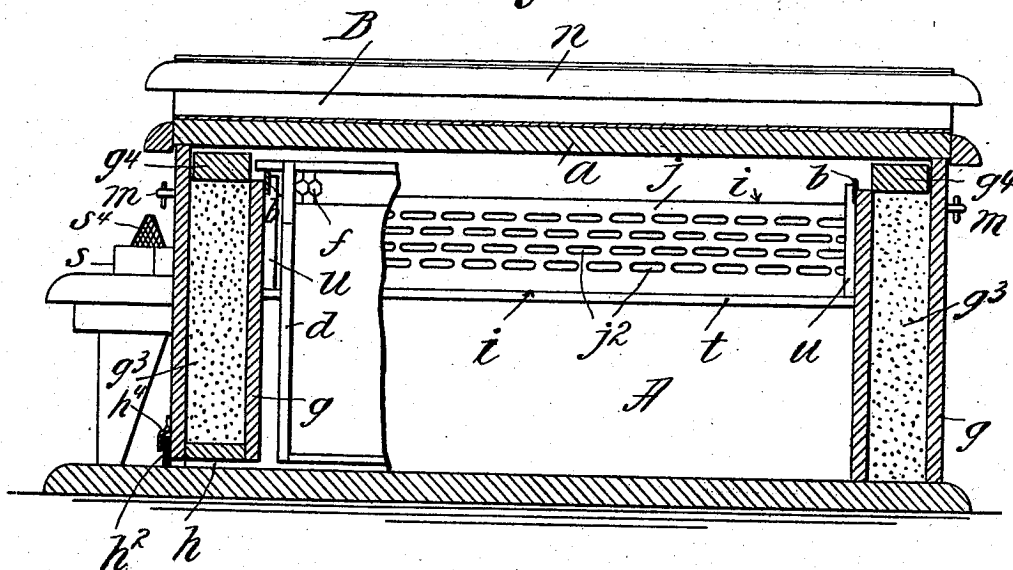
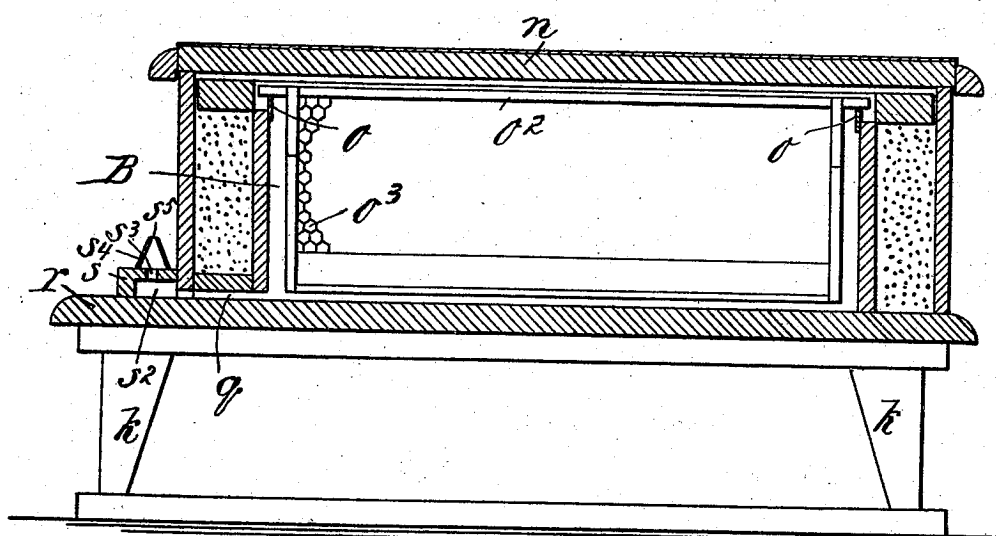


Fig. 5.



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UNITED STATES PATENT OFFICE.

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BEEHIVE.

No. 867,919.

Specification of Letters Patent.

Patented Oct. 8, 1907.

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To all whom it may concern:

Be it known that I, LEWIS H. KESELER, a Danish subject, and a resident of Agawam, in the county of Hampden and State of Massachusetts, have invented certain new and useful Improvements in Beehives, of which the following is a full, clear, and exact description.

The object of this invention is to provide a beehive of improved form and construction whereby it is extremely efficient for bee raising and for the production of honey, and whereby it is susceptible of unusually convenient utilization as regards access to the interior thereof, and otherwise as will be rendered apparent.

The invention consists in a beehive having constructions, formations and arrangements of parts and appurtenances thereof all substantially as hereinafter fully described and set forth in the claims.

The accompanying drawings and the description hereinafter given in conjunction thereof will enable all persons skilled in the art of bee raising and honey production to make use of the same.

A leading characteristic of the present beehive will be perceived in the arrangement of the honey storage chamber at one side of, instead of superimposed on, the brood chamber as most commonly practiced, so that now it is not necessary, when desiring to gain access to the brood chamber to lift away the "super" chamber as heretofore commonly known.

In the drawings,—Figure 1 is a plan view of the beehive with the tops or covers for both the brood chamber and the honey storage chamber removed; Fig. 2 is a vertical section through the hive and comb framed therein taken on line 2—2, Fig. 1. Fig. 3 is a side elevation of the hive. Figs. 4 and 5 are cross sections on the different planes indicated by the lines 4—4 and 5—5, Fig. 1.

Similar characters of reference indicate corresponding parts in all of the views.

In the drawings,—A represents the brood chamber which may advantageously be of rectangular form, the same having a removable top or cover *a*; and it is provided on its opposite walls with supporting ledges *b b* for comb frames *d d* having comb foundations *f*, as usual.

Three of the vertical side walls *g g* and *g²* are made double, with a space between for the reception therein of a filling, such as sawdust, bagging, or the like, which may be provided, as represented at *g³*, especially in cold weather and for the protection of the bees hibernating in the chamber A.

Removable cover sections *g⁴* are provided to close the opening at the upper edges of the double hive walls, rendering convenient the introduction or displacement, as occasion requires, of the protective filling material.

The brood chamber has an opening *h*, in the form of a long, narrow, slot through one side wall thereof, near

its bottom; and *h²* and *h³* represent horizontally slidable plates held in place and constrained for their movements by the guide lug *h⁴* for fully closing or leaving more or less open, as may be desired, the entrance and exit slot for the brood chamber.

B represents the honey storage chamber having its location, instead of directly over, to one side of the brood chamber,—the chamber B being, in practice of somewhat less height than that of the brood chamber.

The side wall *g⁶* of the brood chamber A is made with an opening *i* in the upper portion thereof in which is fitted a foraminous plate or wall *j*, the perforations *j²* of which will be carefully formed of such dimensions as to permit worker bees to pass from the brood chamber directly into the honey storage chamber but to prevent the queen bee or drones from so passing.

The chamber A at its side at which the storage chamber B adjoins is made of step form, as shown at *g⁷* so that the approximate side of the chamber B which is made of complementary form may receive support on the step shaped part of the chamber A while the most outwardly distant portion of the chamber B has supporting legs *k*.

When the honey storage chamber is used in conjunction with the brooding chamber, it is placed in abutment thereagainst, as shown in the drawings, and detachably locked by the hasps and staples *m*, *m²*, shown in Figs. 1 and 3.

The chamber B, similar to the chamber A, has a removable top or cover *n*, and it may or may not be constructed with double walls with spaces for intermediate protective filling. The chamber B also has supporting ledges *o o* for frames *o²*, which do, or may, carry comb foundations; and one side wall of the chamber B has a worker bee entrance and exit slot or opening *q* there-through near the bottom of the casing, adjacent and outwardly beyond which opening *q* is a horizontal ledge *r*.

There being times, as well known, when it is desired that the honey storage chamber shall be cleared of bees, a bee escape is provided for temporary use in the situation shown in Figs. 1, 3 and 5, the same consisting of a block or bar *s* to be removably placed in the angle between said ledge *r* and the adjacent slotted wall of the chamber B, said lock or bar having a recess *s²* at its inner side and leading to one edge of the block and communicating with the bee slot or passage *q*; and the said block also has a hole *s³* extending from the said recess outwardly therethrough; and a cone shaped appliance *s⁴* is secured on the outer side of the block inclosing at its larger end the aforesaid hole *s³*, and it has an opening *s⁵* at its outer contracted end which is smaller than the opening *s³* in the block.

In practice a single bar, having the recessed and apertured formations and the conical appliances plu-

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ralized, is provided, such bar being of a length to entirely stop up the slot like bee passage *q*; and thus it will be apparent that while the bees remaining in the chamber B may readily pass out therefrom through the bee escape, they cannot reënter so long as the bee escape is left in its place relatively to the passage *q*.

The wall *g*⁶ of the chamber A is provided with a ledge *t* just below the opening *g*⁷ provided across which is the foraminous plate *j* and vertical ribs *u u* are provided on the opposite brood chamber walls adjacent the ends of the ledge *t* whereby upwardly opening grooves *v v* are produced for the engagement therein of a removable board or plate, indicated by dotted lines *w* in Figs. 1 and 2 for completely closing the opening leading from the chamber A to the chamber B.

At times when the storage chamber B is detached and removed, and the closing plate or board *w* is brought to the place indicated, a dividing board *y* may be also introduced into the brood chamber outside of the series of brood frames, which may more or less nearly, but not entirely, fill the chamber leaving a space between such board and the wall *g*⁶ for sawdust, bagging, or other protective filling, thus rendering the hive double walled and protected on all of its sides.

I claim:—

1. A beehive comprising a brood chamber having an opening through the side thereof at which is provided a foraminous wall, and also having a bee entrance and exit opening, a honey storage chamber located at the side of the brood chamber, having an opening at the side thereof adjacent the foraminous wall of the opening at the side of the brood chamber, and having honey frame supports therein.

2. A beehive comprising a brood chamber having an opening through the side thereof at which is provided a foraminous wall, and also having a bee entrance and exit opening, a honey storage chamber constructed separable from the brood chamber located at the side of the brood chamber, having an opening at the side thereof adjacent the foraminous wall of the opening at the side of the brood chamber, and having honey frame supports therein.

3. A beehive comprising a brood chamber having an opening through the side thereof at which is provided a foraminous wall, and also having a bee entrance and exit opening, a honey storage chamber constructed separable from the brood chamber located at the side of the brood chamber, having an opening at the side thereof adjacent the foraminous wall of the opening at the side of the brood chamber, having honey frame supports therein, and means for detachably locking the separable chambers together.

4. A beehive comprising a brood chamber having an opening through the side thereof at which is provided a foraminous wall, and also having a bee entrance and exit opening, a honey storage chamber located at the side of the brood chamber, having an opening at the side thereof adjacent the foraminous wall of the opening at the side of the brood chamber, having honey frame supports therein, said honey storage chamber having an opening independent of the brood chamber for the entrance and escape of worker bees.

5. A beehive comprising a brood chamber having an opening through the side thereof at which is provided a foraminous wall, said chamber at such open side being of step form, and having a bee entrance and exit opening, and a honey storage chamber located at the side of the brood chamber, having an opening at the side thereof

adjacent the foraminous walled opening at the side of the brood chamber, and having honey frame supports therein, said honey storage chamber having portions at its open side to receive support on the step shaped side of the brood chamber, and having supporting members at its portion outwardly removed therefrom.

6. A beehive comprising a brood chamber having an opening through the side thereof at which is provided a foraminous wall, and having a bee entrance slot through another wall thereof, a plate slidable along said slot and operative to fully close or leave said slot more or less open, and a honey storage chamber located at the side of the brood chamber, having an opening at the side thereof adjacent the foraminous wall of the opening at the side of the brood chamber, and having honey frame supports therein.

7. A beehive comprising a brood chamber having an opening through the side thereof at which is provided a foraminous wall, and having a bee entrance and exit slot through another side, a pair of plates slidable towards and from each other for fully closing, and for regulating the length of opening of said slot, and a honey storage chamber located at the side of the brood chamber, having an opening at the side thereof adjacent the foraminous walled opening at the side of the brood chamber, and having honey frame supports therein.

8. A beehive comprising a brood chamber having an opening through the side thereof at which is provided a foraminous wall, and also having a bee entrance and exit opening, and a honey storage chamber located at the side of the brood chamber, having an opening at the side thereof adjacent the foraminous walled opening at the side of the brood chamber, and having honey frame supports therein, a ledge horizontally extending along the inner face of the brood chamber wall below the said opening therein, and the opposite brood chamber walls, adjacent the ends of said opening and of said ledge, having vertical ribs forming upwardly opening grooves for the engagement therein of a removable plate for fully closing the opening leading from the brood chamber to the honey storage chamber.

9. The combination with a brood chamber, and a honey storage chamber connected therewith, said latter chamber having a passage leading through the wall thereof for worker bee entrance and exit, and formed with an outwardly projecting ledge adjacent said passage, a block removably placed in the angle between said ledge and adjacent wall of the storage chamber having a recess at its inner side and leading to one edge of the block, and communicating with said passage, also having a hole extending from said recess outwardly through the block and a cone shaped appliance secured on said block, inclosing at its larger end said hole, and having an opening at its outer, contracted, end smaller than the block opening.

10. In a beehive, a brood chamber having supports therein for a plurality of brood frames, having an opening through one side thereof at which is provided a foraminous plate and constructed with double walls at all of its sides excepting that provided with said opening, and having a bee entrance and exit opening, a honey storage chamber constructed separable from the brood chamber, located at the side thereof, having an opening at its side adjacent the side opening of the brood chamber and having honey supports therein, and a dividing board adapted to be fitted within the brood chamber outside of the brood frames, and leaving a space for a protective filling between it and the wall of the chamber having said opening.

Signed by me at Springfield, Mass., in presence of two subscribing witnesses.

LEWIS H. KESLER.

Witnesses:

S. E. HOWES,
JAMES E. HOWES.