

B. H. LUPKE.
BEEHIVE.

APPLICATION FILED JUNE 26, 1915.

Patented Feb. 1, 1916.

2 SHEETS—SHEET 1.

1,170,299.

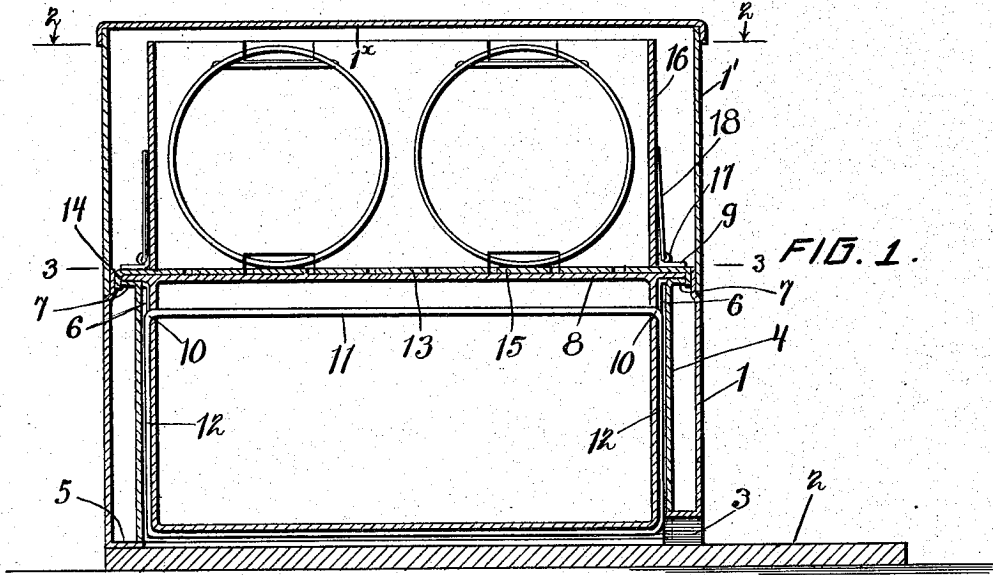


FIG. 1.

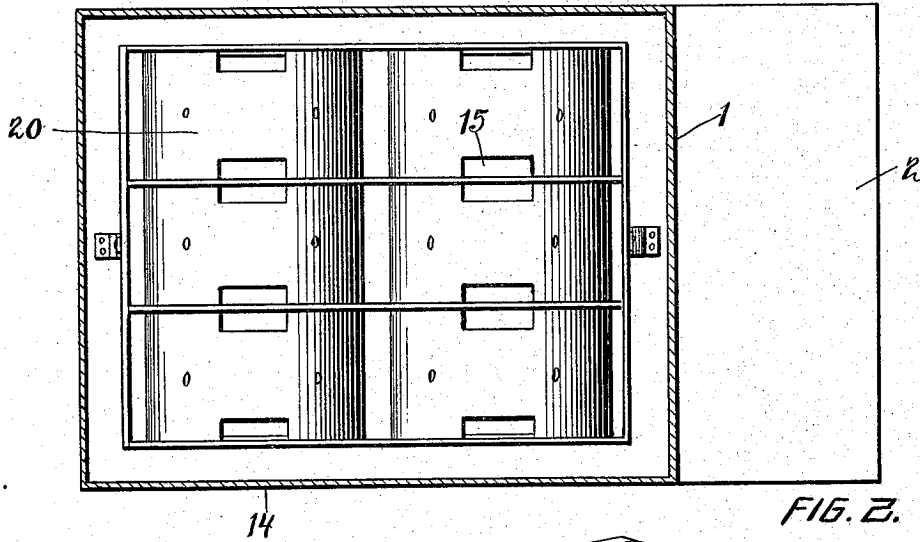
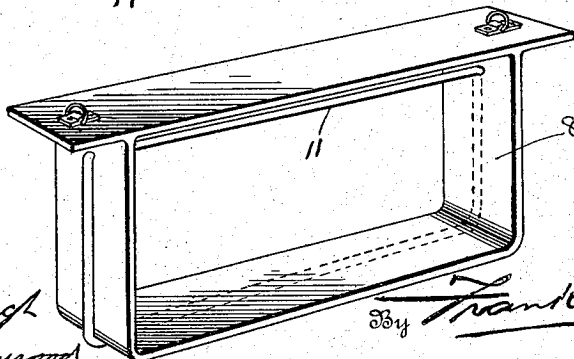


FIG. 2.

FIG. 3.



Witnesses
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FIG. 3.

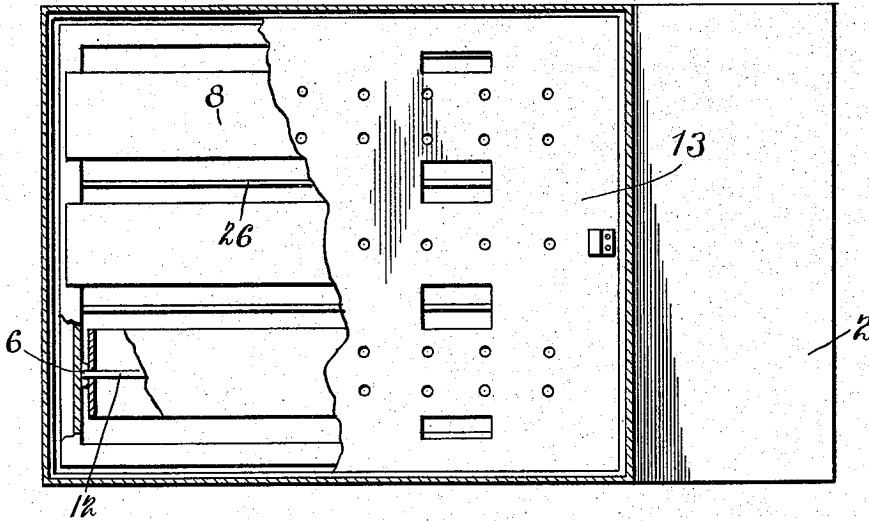


FIG. 4.

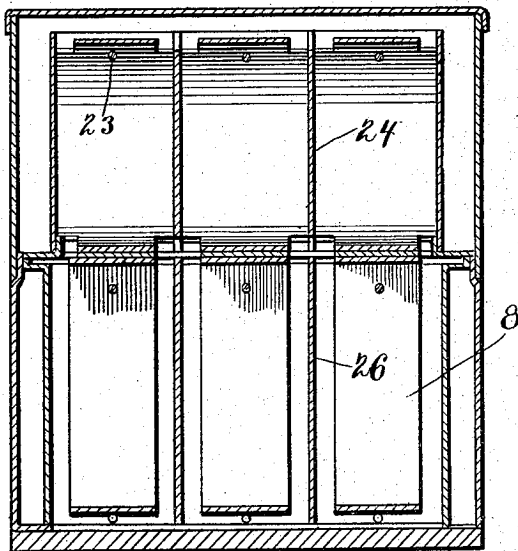
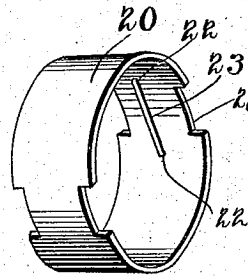


FIG. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

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BEEHIVE.

1,170,299.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, BERNARD H. LUPKE, a citizen of the United States, residing at Dolores, in the county of Montezuma and State of Colorado, have invented certain new and useful Improvements in Beehives; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in bee hives and consists of a simple and efficient apparatus of this nature having various details of construction, combinations and arrangements of parts which will be hereinafter fully described, shown in the accompanying drawings and then specifically defined in the appended claims.

My invention is illustrated in the accompanying drawings, in which:

Figure 1 is a vertical central sectional view through the bee hive. Fig. 2 is a view taken on line 2—2 of Fig. 1. Fig. 3 is a sectional view taken on line 3—3 of Fig. 1. Fig. 4 is a view taken through the hive on a plane at right angles to the plane upon which Fig. 1 is taken. Fig. 5 is an enlarged detail view of a honey frame, and Fig. 6 is an enlarged detail perspective of one of the frames.

Reference now being had to the details of the drawings by numeral, 1 designates the lower section of an outer casing and 1' the upper section of the casing fitting thereover and 1" designates a flanged lid fitting over the upper section, and 2 is a bottom which projects beyond one side thereof, said casing having an opening 3 through which bees are allowed to enter and make exit from the hive. The hive proper is designated by numeral 4 and rests upon the inturned flange 5 about the lower marginal edge of the casing 1 and is provided with oppositely disposed vertical grooves 6 formed in the sides thereof, and the upper end of the hive has outwardly extending flanges 7.

Frames, designated by numeral 8, have laterally projecting flanges 9 adapted to rest upon the outwardly turned flanged portions of the hive in the manner shown clearly in Fig. 1 of the drawings and said frames have apertures 10 formed in their opposite ends,

adapted to receive the wire 11 which extends through said apertures and parallel with the bottom, and portions 12 of the wire are vertically disposed and extend outside the ends of the frames and are adapted to engage the vertical grooves 6 formed in the ends of the hive, while a portion of the wire passes underneath the bottom of each frame, as shown clearly in the drawings. A starter, not shown, is adapted to be supported by said horizontally disposed part 11 of the wire.

A perforated plate, designated by numeral 13, has flanged ends 14 adapted to engage over the flanged portions of said frames and the flanges 7 and has openings 15 formed therein, as shown in Fig. 2 of the drawings, and upon the plate 13 the super 16 is adapted to rest. Eyes 17 are fastened to said perforated plate 13 and are adapted to be engaged by the hooks 18 to hold the super to said plate.

A series of honey containing frames, one of which is shown in Fig. 5 of the drawings and which is designated by numeral 20, are provided with oppositely disposed recesses 21, the recesses at the lower portion of the frames being adapted to register with the openings 15 to allow bees to pass back and forth therethrough from the hive into the frames 20 held within the super.

Vertically disposed partitions, designated by numeral 24, are interposed between the various cylindrical frames 20 and similar partitions, designated by numeral 26, are placed between the frames 8 directly underneath and in alinement with the partitions 24. Each of the frames 20 is provided with circumferential apertures 22 through which a rod 23 passes and upon which a starter is adapted to be fastened in any suitable manner.

When the parts are assembled in place, it will be noted that a considerable space intervenes between the sections forming the casing and the hive and super, allowing for ventilation and also a space intervenes between the top of the super and the lid. While I have shown a single unit of the bee hives, the super showing six cylindrical frames and a similar number of frames in the hive, it will be understood that any number of units may be employed and arranged in a similar manner as disclosed.

From the foregoing, it will be noted that, by the provision of a hive made in accordance with my invention, the parts being

made preferably of metal, the various frames are guided when being inserted within the hive, the hive will be thoroughly ventilated and means provided whereby bees may have
 5 ready access to the interior of the hive and to the super and cylindrical frames contained therein and, by disconnecting the hooks which hold the super to the perforated plate beneath, the parts may be readily
 10 opened apart, when desired, and replaced, the outer casing about the hive and super being positioned with a space intervening between the same, thus allowing for a thorough ventilation about the hive.

15 What I claim to be new is:—

1. A bee hive comprising a shell with a bee opening in the lower portion thereof, a hive having grooves formed in the opposite
 20 ends thereof, frames, wire passing through the ends of the latter and spaced apart from the top thereof and upon which a starter is adapted to be supported, said wire extending outside the ends of the frame and adapted to engage said grooves, the ends of the
 25 frames having projections resting upon the hive, a perforated plate with openings therein and adapted to rest upon said frames, a super and means for fastening the same to said plate, a series of cylindrical, open-
 30 ended frames, recesses formed in the edge thereof and which cylindrical frames are

adapted to register with openings in said plate, a closure to said super, and a lid to said casing.

2. A bee hive comprising a shell with a 35 bee opening in the lower portion thereof, a hive having grooves formed in the opposite ends thereof, frames, wire passing through the ends of the latter and spaced apart from the top thereof and upon which a starter is 40 adapted to be supported, said wire extending outside the ends of the frame and adapted to engage said grooves, the ends of the frames having projections resting upon the hive, a perforated plate with openings therein 45 adapted to rest upon said frames, a super and means for fastening the same to said plate, a series of cylindrical, open-ended frames, recesses formed in the edge thereof and which cylindrical frames are adapted to 50 register with openings in said plate, vertically disposed partitions intermediate the cylindrical casings and resting upon said perforated plate, and partitions intermediate 55 said frames in the hive.

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

BERNARD H. LUPKE.

Witnesses:

A. F. HARRIS,
 W. R. LUXTON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."