

CLASS 449, BEE CULTURE**SECTION I - CLASS DEFINITION**

This class includes the methods of and structures for propagating, raising and caring for bees; as well as certain ancillary methods and structures.

SECTION II - REFERENCES TO OTHER CLASSES**SEE OR SEARCH CLASS:**

119, Animal Husbandry, appropriate subclasses for methods and structures for propagating, raising, and caring for animals, or other living, mobile creatures, generally. Also, see the search notes therein for reference to ancillary methods and structure.

SUBCLASSES**1 METHOD:**

This subclass is indented under the class definition. Process .

2 Honeybee:

This subclass is indented under subclass 1. Process specific to bees of a variety intended to produce edible honey.

3 Hive:

This subclass is indented under the class definition. Structure intended to house a colony of bees.

4 For nonhoney producing bee:

This subclass is indented under subclass 3. Structure intended to house a colony of bees of a variety that does not produce honey suitable for human consumption.

(1) Note. Included herein is housing for "leaf cutter" bees which are used to pollinate alfalfa.

5 With provision to extract honey:

This subclass is indented under subclass 3. Structure including provision to remove liquid honey from the component parts of the hive.

6 Observation:

This subclass is indented under subclass 3. Structure including provision to allow viewing of the interior of the hive without opening the hive.

7 Multi-queen, e.g. swarm capture:

This subclass is indented under subclass 3. Structure with provision to allow more than one queen bee to be housed in the same hive.

SEE OR SEARCH THIS CLASS, SUBCLASS:

26, for a container for multiple colonies of bees with independent chambers for each colony.

8 Queen raising:

This subclass is indented under subclass 7. Structure with provision to encourage and care for the production of a bee larvae into a queen bee.

9 With Feeder:

This subclass is indented under subclass 3. Structure combined with means to allow a beekeeper to provide sustenance to the colony.

SEE OR SEARCH THIS CLASS, SUBCLASS:

48, for means to allow a beekeeper to supply sustenance to bees, outside the confines of a bee hive.

10 Fitted in frame slot:

This subclass is indented under subclass 9. Structure wherein the hive is of a type having removable honey supporting frames and wherein the sustenance supplying provision comprises structure intended to fit in the space normally occupied by such a frame.

11 Having external food supply:

This subclass is indented under subclass 9. Structure wherein there is access outside the hive to allow sustenance to be provided to the colony without opening the hive.

(1) Note. An opening provided for access to the hive for the sole purpose of supplying food is included herein; e.g., an opening in the hive cover for supplying food is included herein, but a removable

- hive cover through which food may be supplied is not included herein.
- 12 With heater:**
This subclass is indented under subclass 3. Structure combined with structure to raise the thermal level of the hive or of a portion thereof.
- 13 With ventilator:**
This subclass is indented under subclass 3. Structure with or including provision to encourage the flow of air through the hive.
- 14 In cover:**
This subclass is indented under subclass 13. Structure including a removable top most portion having provision therein for encouraging the flow of air through the hive.
- 15 Cover:**
This subclass is indented under subclass 3. Structure comprising a removable top most portion of a hive.
- 16 Alighting board:**
This subclass is indented under subclass 3. Structure comprising that portion of a hive provided to receive bees as they land in anticipation of entering the hive.
- 17 Comb honey:**
This subclass is indented under subclass 3. Structure including provision specific to the marketing of honey without removal from the honeycomb.
- 18 Having propolis collector:**
This subclass is indented under subclass 3. Structure having or combined with provision to capture propolis from the bees as they pass by.
- 19 Having pollen collector or applier:**
This subclass is indented under subclass 3. Structure having or combined with provision to capture the pollen off the bees as they pass by or provision to apply pollen to the bees as they pass by.
- (1) Note. Pollen is captured from the bees to make possible marketing of the pollen. Pollen is applied to the bees to encourage pollination of the flowers to which the bees subsequently fly.
- 20 Passage:**
This subclass is indented under subclass 3. Structure comprising that portion of a hive intended to allow movement of bees from one portion of the hive to another.
- (1) Note. Included herein is an entrance to the hive.
- 21 Queen/drone control means:**
This subclass is indented under subclass 20. Structure intended to restrict passage such that a queen bee or a drone is limited in movement therethrough, while permitting passage of worker bees.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
27, for transportation means specific to transportation requirements of a queen bee which may confine the movements of the queen and her attendant workers.
- 22 Moth control means:**
This subclass is indented under subclass 20. Structure intended to restrict passage such that a moth is limited in movement therethrough.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
16, for an alighting board that is movable to restrict passage into the hive which, if moved to the restricting position, may be used to prevent moths entering at night.
25, for a manually closable hive entrance which, if in the closed position, may prevent moths entering at night.
- 23 One-way passage:**
This subclass is indented under subclass 20. Structure intended to allow movement of bees in only a single direction.
- 24 Adjustable:**
This subclass is indented under subclass 20. Structure including provision to modify the position or size of the passage.

- 25 Entrance:**
This subclass is indented under subclass 20. Structure comprising that passage in which the bees normally enter (or exit) the hive.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
16, for an alighting board that is adjustable to change the size or configuration of the hive entrance.
- 26 Stand or hive container:**
This subclass is indented under subclass 3. Structure comprising (a) underlying members, distinct from the hive itself, intended to support the hive or a group of hives against the force of gravity or (b) structure, distinct from the hive itself, intended to house the hive or a group of hives.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
7+, for a container for multiple queen bees without a distinguishable housing for each queen colony.
- 27 Transportation provision or swarm catcher:**
This subclass is indented under subclass 3. Structure including provision specific to transport of a hive or a significant component part thereof from one location to another; or including provision to retrieve an unhived colony of bees.
- (1) Note. A hive including component securing means to allow it to be inverted is included herein.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
7+, for a hive having provision to retain both the old colony and the swarming colony of bees.
26, for a hive on specific stand that allows the hive to be inverted.
42, for a honey frame that can be inverted.
- 28 Queen bee:**
This subclass is indented under subclass 27. Structure including provision specific to transport a living queen bee.
- 29 Hive shell of particular material:**
This subclass is indented under subclass 3. Structure comprising that portion of a hive intended to encase a colony of bees, i.e., body, bottom and cover, which is of a specifically recited composition.
- (1) Note. Generally, wood is not considered to be a particular material for this subclass.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
42+, for a honey frame of particular material.
- 30 Plastic or paper:**
This subclass is indented under subclass 29. Structure comprising that portion of a hive intended to encase a colony of bees which is of polymerized petroleum or is of randomly woven cerulous fibers.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
43, for a honey frame of plastic.
- 31 Ceramic, clay or plaster:**
This subclass is indented under subclass 29. Structure wherein the specific composition is glazed or dried siliceous material or is a hardened mixture of material.
- 32 Vertically stacked hive bodies:**
This subclass is indented under subclass 3. Structure wherein the portion of the hive between the bottom and the cover consists of a plurality of tubular members positioned one above the other.
- 33 Directly accessible lower body:**
This subclass is indented under subclass 32. Structure including provision to allow physical inspection of the interior of a lower hive body without removal of the upper hive body.
- 34 Congruent bodies:**
This subclass is indented under subclass 32. Structure wherein the upper and lower hive bodies engage in a horizontal plane and wherein they are of such dimensions that, at the plane of engagement, they fit exactly one on the other.

- 35 Separable honey frame type:**
This subclass is indented under subclass 3. Structure including a removable member having parts intended to generally lie in a plane with the honeycomb and encompassing that honeycomb, such that the member and the honeycomb can be removed from the remainder of the hive with a minimum of disturbance to the colony of bees housed therein.
- 36 Pivoted honey frame:**
This subclass is indented under subclass 35. Structure including a plurality of honey frames attached to each other such that one turns with respect to the adjacent honey frame about a line when being removed or inspected by the bee-keeper.
- (1) Note. The honey frame of the hive of this subclass may open, in the manner of the pages of a book.
- 37 With honey frame spacer:**
This subclass is indented under subclass 35. Structure including provision to determine the distance that a honey frame is located from other structure, e.g., from an adjacent frame.
- (1) Note. The frame spacer of this subclass may be any part of the hive structure except it may not be an integral part of the honey frame.
- 38 Side opening hive:**
This subclass is indented under subclass 35. Structure including a horizontally facing wall having a portion movable to allow access to the hive.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
46, for a side opening bee hive, generally.
- 39 Pivoting side:**
This subclass is indented under subclass 38. Structure wherein the portion moves about a fixed axis with respect to the remainder of the hive.
- 40 Vertical pivot:**
This subclass is indented under subclass 39. Structure wherein the portion moves in a horizontal plane.
- 41 Laterally disposed compartments:**
This subclass is indented under subclass 35. Structure including a vertical partition forming distinct rooms.
- (1) Note. The vertical partition of this subclass may comprise a panel inserted in place of one of the honey frames.
- 42 Honey frame or honeycomb foundation details:**
This subclass is indented under subclass 35. Structure including limitations of the honey frame or of artificial honeycomb.
- (1) Note. The artificial honeycomb of this subclass normally comprises only the central web between the chambers in which honey is to be placed.
- (2) Note. A honey frame, per se, a section of artificial honeycomb, per se, is included herein.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
17, for a honey frame specifically intended to hold honey to be marketed in the comb.
- 43 Snap fit together or of plastic:**
This subclass is indented under subclass 42. Structure wherein the honey frame consists of multiple components that fit together by stressing a portion within its elastic limit or wherein the honey frame is of polymerized petroleum.
- SEE OR SEARCH THIS CLASS, SUB-CLASS:
30, for a hive shell made of plastic.
- 44 Honeycomb foundation details:**
This subclass is indented under subclass 42. Structure comprising artificial honeycomb specifically limited.
- 45 Strand or metal reinforced honeycomb foundation:**
This subclass is indented under subclass 44. Structure including (1) fibrous material embedded in the plane of the artificial honeycomb, or (2) metallic component to strengthen the artificial honeycomb.

- 46 Side opening:**
This subclass is indented under subclass 3. Structure including a horizontally facing wall having a portion movable to allow access to the hive.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
38+, for a similar hive of the separable honey frame type.
- 47 VENOM COLLECTOR:**
This subclass is indented under the class definition. Structure comprising provision to capture poison from a bee stinger.
- 48 FEEDER:**
This subclass is indented under the class definition. Structure comprising provision to supply sustenance to bees.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
9+, for the combination of a bee hive with a bee feeding provision or for a feeder that is to be a part of a bee hive.
- 49 BEE FOOD PREPARATION MEANS:**
This subclass is indented under the class definition. Structure including means to aid in making sustenance for consumption by bees.
- 50 BASE MOUNTED DEVICE:**
This subclass is indented under the class definition. Structure intended to be used in a fixed location, with structure includes support provision.
- 51 Means to remove honey frame from hive:**
This subclass is indented under subclass 50. Structure intended to be used to take a honeycomb supporting frame member out of a hive body.
- 52 Means to remove bees from hive:**
This subclass is indented under subclass 50. Structure intended to be used to cause the bees to leave a hive body.
- (1) Note. A fume producing panel is included herein, even though supported by the hive rather than by its base.
- 53 Honey extracting device:**
This subclass is indented under subclass 50. Structure intended to be used to separate liquid honey from other parts or component of the hive, particularly from the honeycomb.
- SEE OR SEARCH CLASS:
210, Liquid Purification or Separation, subclass 361 for a centrifugal extractor having an individual article container or support.
- 54 Honeycomb decapping device:**
This subclass is indented under subclass 51. Structure intended to remove the wax covering of honeycomb to allow removal of honey therefrom.
- 55 Having heater:**
This subclass is indented under subclass 54. Structure including means to raise the thermal level thereof.
- 56 Hive or frame cleaning:**
This subclass is indented under subclass 50. Structure including means to remove foreign material from the component parts of structure used to house a colony of bees.
- 57 Assembling device:**
This subclass is indented under subclass 50. Structure peculiar to the bringing together of the components of structure peculiar to bee culture.
- SEE OR SEARCH CLASS:
29, Metal Working, subclasses 700+ for means to assemble, generally.
- 58 Honeycomb foundation:**
This subclass is indented under subclass 57. Structure peculiar to bringing honeycomb foundation together with other structure.
- 59 Honeycomb foundation wiring:**
Structure under 58 peculiar to embedding strand material into the plane of artificial honeycomb.
- SEE OR SEARCH CLASS:
219, Electric Heating, subclasses 50+ for metal heating utilizing electrical resistance, generally; and subclasses 201+

for a heating device combined with a diverse-type art device, generally.

- 60 Honeycomb foundation former:**
This subclass is indented under subclass 50. Structure intended to give desired configuration to artificial honeycomb.

SEE OR SEARCH CLASS:

- 156, Adhesive Bonding and Miscellaneous Chemical Manufacture, subclasses 60+ for a method of surface bonding and/or assembly therefor; and subclasses 349+ for means of surface bonding and/or assembly therefor; generally.
249, Static Molds, subclasses 117+ for a static mold for forming material, generally.
264, Plastic and Nonmetallic Article Shaping or Treating: Processes, appropriate subclasses for a method of molding, generally.
425, Plastic Article or Earthenware Shaping or Treating: Apparatus, appropriate subclasses for apparatus for molding, generally.

- 61 RANDOMLY MANIPULATED DEVICE:**
This subclass is indented under the class definition. Structure peculiar to beekeeping and intended to be handled by a beekeeper without restriction.

- 62 Plier type:**
This subclass is indented under subclass 61. Structure including a pair of manually squeezable handles pivotally attached to each other each carrying a jaw to act in concert with the jaw of the other handle.

SEE OR SEARCH CLASS:

- 294, Handling: Hand and Hoist-Line Implements, subclass 16 for a hand bar or hand barrow having opposing jaws; subclasses 86.4+ for a grapple, generally, especially subclasses 118+ for a grapple of the crossed lever, pivoting jaw type.

- 63 Honeycomb decapping device:**
This subclass is indented under subclass 61. Structure intended to remove the covering of honeycomb to allow removal of honey therefrom.

SEE OR SEARCH CLASS:

- 30, Cutlery, subclass 140 for a heated knife, generally; and subclasses 165+ for a knife, generally, especially subclasses 296.1+ for a blade and handle.

- 64 Hive body separating device:**
This subclass is indented under subclass 61. Structure particularly adapted to force one tubular beehive shell away from another tubular shell on which it was previously resting.

END