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C. WILLIAMS
BEE HIVE MOVER
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2,358,431

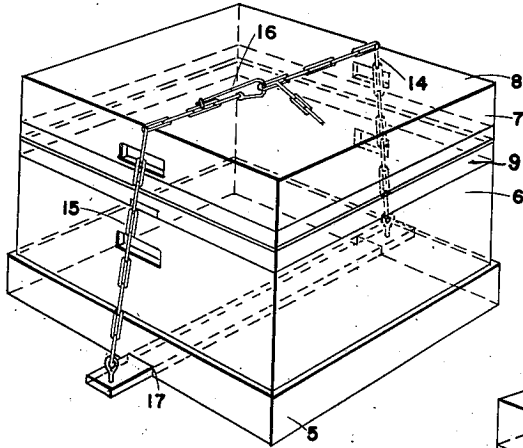


Fig. 1.

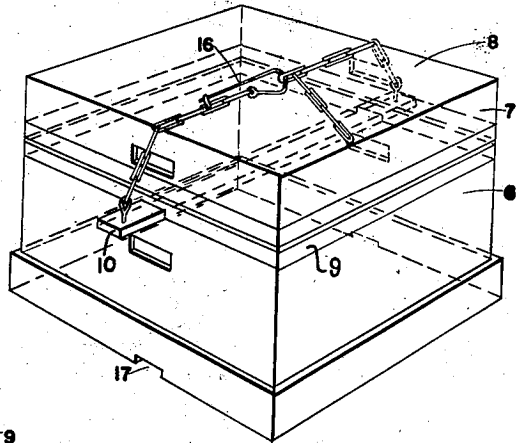


Fig. 2.

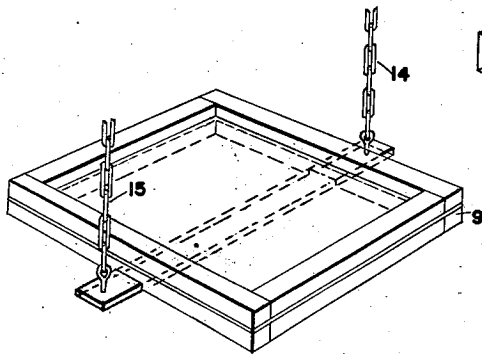


Fig. 3.

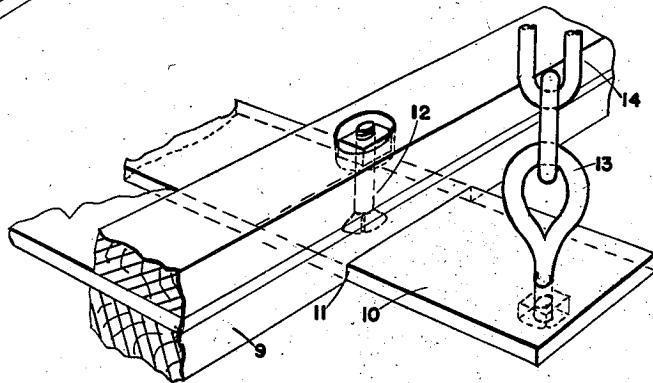


Fig. 4.

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BEEHIVE MOVER

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2 Claims. (Cl. 6—12)

This invention relates to devices for facilitating the moving of bee hives from one location to another, or for merging one swarm with another, as is frequently necessary in apiaries. The invention may be applied to and used with any rectangular frame commensurate in area and marginal configuration with a cross section of the hive upon which it is to be used, such as the frame of any conventional swarm connector, or it may be applied to the base-board of a hive assembly in lieu of such frame.

The prime object of the present invention is to provide convenient means for lifting and moving a complete hive including the lower brood hive or section, the upper hive or section commonly referred to as the "super," together with the base and cover boards, from one location to another; or for moving a "super" hive or section from one brood hive or section to another, as in the process of merging two swarms, or for any similar purpose; or for transferring a hive and "super" containing one swarm for the purpose of merging same with another swarm occupying another hive. Another object is to provide, in a device of the kind referred to, means for rigidly binding together the several parts comprising a complete hive, in such manner that these parts may not shift out of alignment in the moving process, thus preventing the escape of any of the bees.

With the aforesaid objects in view, and such further objects and advantages as may be developed in the specification, a preferred embodiment of the invention is shown in the accompanying drawing, wherein:

Figure 1 is a perspective view showing a complete bee-hive including the base board, brood hive, "super" hive and cover board, all firmly bound together by the device constituting this invention, as in the process of moving the assembly from one location to another.

Figure 2 is a similar perspective view showing the invention in use, in the process of moving a "super" hive from a lower brood hive at one location, for placing it atop another brood hive at another location, as in the operation of merging two swarms.

Figure 3 is a perspective view of the device as mounted on a conventional swarm connector and frame.

Figure 4 is a detail on an enlarged scale, of the method of mortising the frame of the swarm connector at the under side thereof, to smoothly engage the cross bar of the invention.

The invention is for use upon a hive assembly

including a flat base-board 5, a brood hive or section 6, a "super" hive or section 7, and a top board or cover 8. In addition such assembly may or may not include a swarm connector or frame of any kind, of substantially co-equal area and marginal configuration, as the frame indicated at 9, or in lieu thereof the base-board 5 itself in case the entire hive assembly is to be moved.

The invention includes a flat cross-bar 10, adapted to span laterally the frame 9 of the swarm connector, and to fit smoothly into shallow recesses 11 formed medially and in transverse alignment in the under faces of the side bars of said frame. The cross-bar 10 is removably bolted to the side bars of the frame by means of bolts 12 passed through the cross-bar and side bars, the bolts being screw headed and counter sunk in the under side of the bar 10, and the nuts or burs being similarly counter-sunk into the upper sides of the side bars 9, whereby the swarm connector and frame may be smoothly located beneath a "super" hive 7 in the process of removing the "super" and cover to a new location, as onto another hive.

The ends of the cross-bar 10 are extended laterally of the frame or swarm connector 9, as shown, and eye-bolts 13 are passed through these extended ends. A pair of link chains 14, 15, or similar elements, are connected one each to the eye-bolts at each side, and are long enough to mutually embrace the entire hive assembly as represented in Figure 1, after which their free ends are joined by means of the fastener-hook 16, or the like, whereby the device may be readily applied to or removed from the hive units, as desired. By locating the hook 16 through appropriate links of the chain 14, after the two chains have been pulled tautly over the hive assembly, the several parts of the assembly are held firmly together for moving same to a new location. The base board 5 may be recessed at its under side, as indicated at 17, similarly to the recesses 11 of the swarm connector or frame 9, for engaging the flat cross-bar 10, and holding same against slipping.

In use, and if it is desired to move the entire hive assembly, the flat cross-bar 10 is unbolted and removed from the swarm connector 9, and is passed beneath the base-board 5 of the hive assembly. The chains 14, 15 are then drawn taut, up over the top of the assembly and fastened together by means of the hook 16, in the manner already indicated. The assembly may

then be readily moved, without danger of dislocation.

If it is desired to move a "super" hive 7 from one brood hive, as that indicated at 6, onto another brood hive, the process is as indicated in Figure 2. The flat cross-bar 10 is bolted beneath the swarm connector 9, and the latter is then passed below the "super" hive and the chains 14, 15 are drawn up at each side and over the cover 8, the chain ends being then joined by means of the hook 16.

While I have here shown and described a preferred embodiment of the invention, and specific structural features thereof, the details of structure as described may be varied within the scope of the claims.

I claim:

1. In a device of the kind described for moving bee-hive sections, a flat element substantially

commensurate with the transverse area of the sections, for positioning beneath the sections to be moved, a cross-bar anchored transversely and medially across the under side of the said flat element and mortised smoothly in place, the ends of the cross-bar being extended laterally, chains connected at one end to the extended ends of the cross-bar and adapted to mutually embrace the hive sections over the top thereof, and means for releasably locking the free ends of the chains together over the sections of hive.

2. In a device according to claim 1, the said chains and locking means comprising an open link chain at one side at least, and a fastening hook secured to the free end of the other chain and adapted to releasably engage any selected link of the open link chain.

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