Feb. 20, 1945. J. P. COAKLEY 2,369,815

BEE HIVE TOOL

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Fig. 1

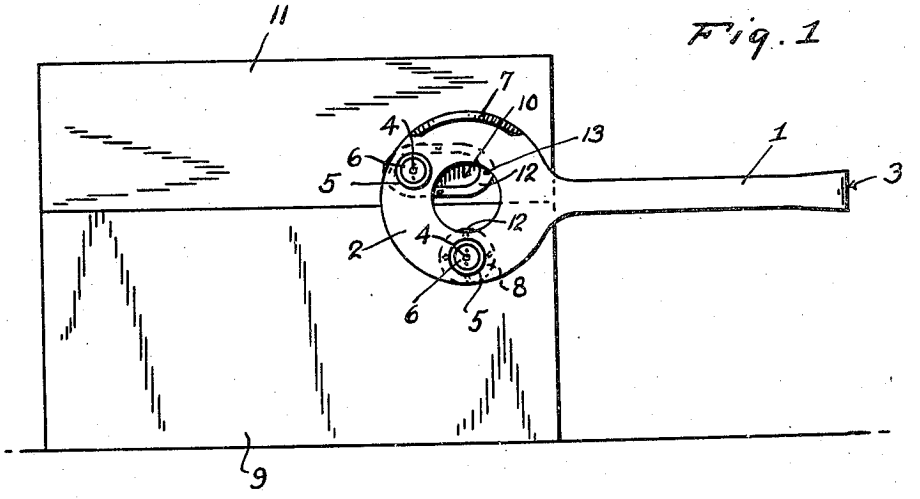

Fig. 2.

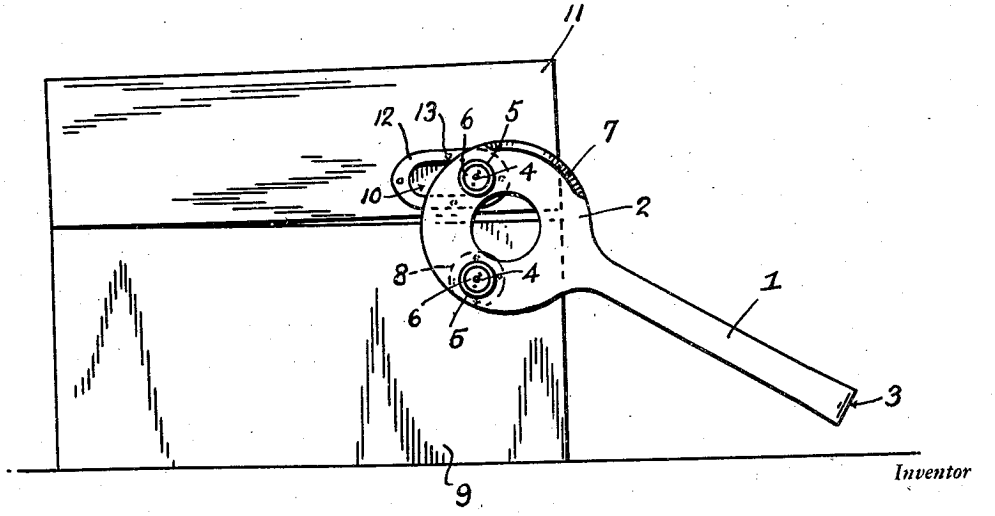

Fig. 8.

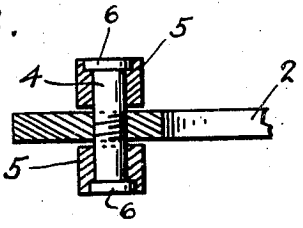

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Fig. 3.

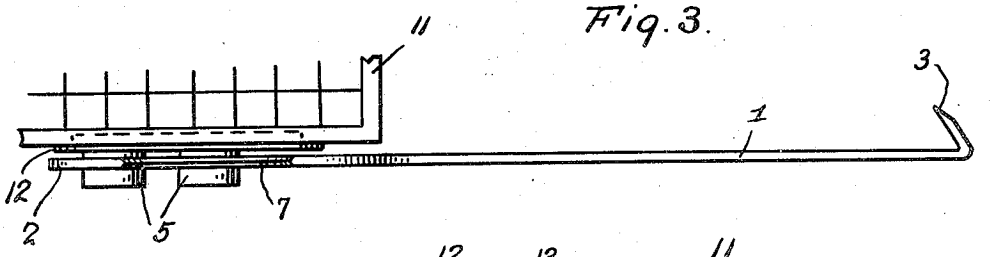


Fig. 4.

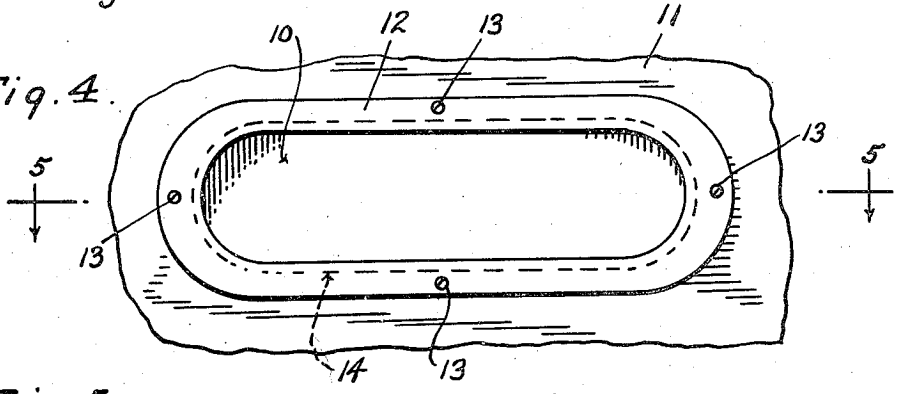


Fig. 5.

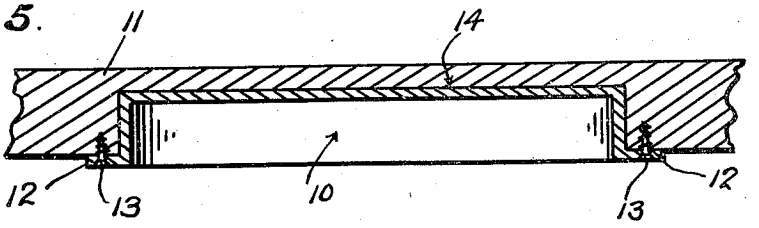


Fig. 6.

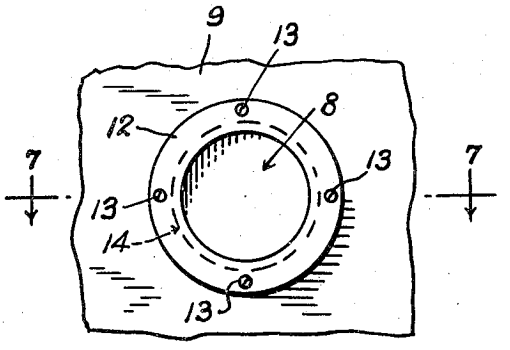
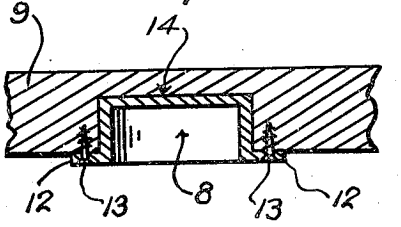


Fig. 7.



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UNITED STATES PATENT OFFICE

2,369,815

BEEHIVE TOOL

Joseph P. Coakley, Woodbine, N. J.

Application July 21, 1943, Serial No. 495,660

2 Claims. (Cl. 6—12)

The present invention relates to new and useful improvements in beehive tools, and has for its primary object to provide, in a manner as hereinafter set forth, novel means for expeditiously, and with minimum effort, breaking loose the super from the main body of the hives without damaging said hive or unduly disturbing the bees.

Another very important object of the invention is to provide a beehive tool of the character described which embodies unique means for prying the frames apart.

Still another important object of the invention is to provide a beehive tool of the character set forth which, in addition to the aforementioned features, also includes a scraper.

Other objects of the invention are to provide a beehive tool of the aforementioned character which will be comparatively simple in construction, strong, durable, highly efficient and reliable in use, compact, and which may be manufactured at low cost.

All of the foregoing, and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawings wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a view in side elevation, showing the device applied to one side of a hive in position to break the joint or seam between the super and the body of said hive.

Figure 2 is a view substantially similar to Figure 1 but showing the hive after the super seam has been broken.

Figure 3 is a plan view, showing the device engaged with the hive.

Figure 4 is a view in side elevation, showing the elongated metallic socket which is recessed into the super.

Figure 5 is a view in horizontal section, taken substantially on the line 5—5 of Figure 4.

Figure 6 is a view in side elevation of the circular socket which is recessed into the body of the hive.

Figure 7 is a view in horizontal section, taken substantially on the line 7—7 of Figure 6.

Figure 8 is a sectional view through the forward portion of the tool.

Referring now to the drawings in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a metallic lever 1 of suitable dimensions. Formed integrally with the forward end of the lever 1 is a substantially flat ring 2. The rear end portion of the lever 1 may be broadened, flattened, turned at an acute angle and sharpened in a manner to provide a scraper 3.

At spaced points metallic pins 4 are mounted transversely in the forward and lower portions of the ring 2 and project from both faces or sides thereof. As illustrated to advantage in Figure 8 of the drawings, the pins 4 are threaded through the ring 2. Metallic rollers 5 are journaled on the end portions of the pins 4. Suitable retaining nuts 6 are provided on the ends of the pins 4, said nuts being recessed into the outer end portions of the rollers 5. As best seen in Figures 1 and 2 of the drawings, the ring 2 is engageable vertically with one side of the hive. The upper portion of the ring 2 is peripherally tapered in a manner to provide a knife edge 7. The purpose of this knife edge 7 will be presently set forth.

A circular socket 8 recessed into the side of the hive body 9 adjacent the top thereof. A horizontally elongated socket 10 is recessed into the corresponding side of the super 11 adjacent the bottom thereof. The sockets 8 and 10 comprise out-turned flanges 12 which abut the sides of the hive body 9 and the super 11, said flanges being apertured to receive securing screws 13. Recesses 14 in the hive body 9 and the super 11 accommodate the sockets 8 and 10.

It is thought that the operation of the device will be readily apparent from a consideration of the foregoing. Briefly, with the lever 1 in a substantially horizontal position, the rollers 5 on one side of the ring 2 are engaged in the sockets 8 and 10. The lever 1 is then swung downwardly to the position of Figure 2 of the drawings, thus breaking the seam or joint of the super and lifting said super. The invention contemplates the provision of the sockets 8 and 10 on both sides of the hive. Thus, by providing the rollers 5 on both sides of the ring 2, the tool may be used with equal facility on either side of the hive. The knife edge 7 facilitates inserting the ring 2 between the frames for prying said frames apart.

It is believed that the many advantages of a combination beehive tool constructed in accordance with the present invention will be readily understood, and although a preferred embodiment of the device is as illustrated and described, it is to be understood that changes in the details of construction may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:

1. Means for separating a super from the body

of a beehive comprising, a socket member mounted on the hive body, a horizontally elongated socket member mounted on the super, a lever, and spaced members on the lever engageable in the sockets for separating the super from the hive body upon actuation of said lever.

2. Means for separating a super from a beehive body comprising, in combination, a circular socket recessed into the hive body, a horizontally elongated socket recessed into the super, a lever, a ring on one end of said lever, and rollers mounted on the ring at spaced points and engageable in the sockets for separating the super from the hive body upon swinging movement of the lever.

JOSEPH P. COAKLEY.