Aug. 25, 1931. C. E. SANDERS 1,820,500

BEEHIVE BROOD FRAME

Filed March 4, 1930

Fig. 1.

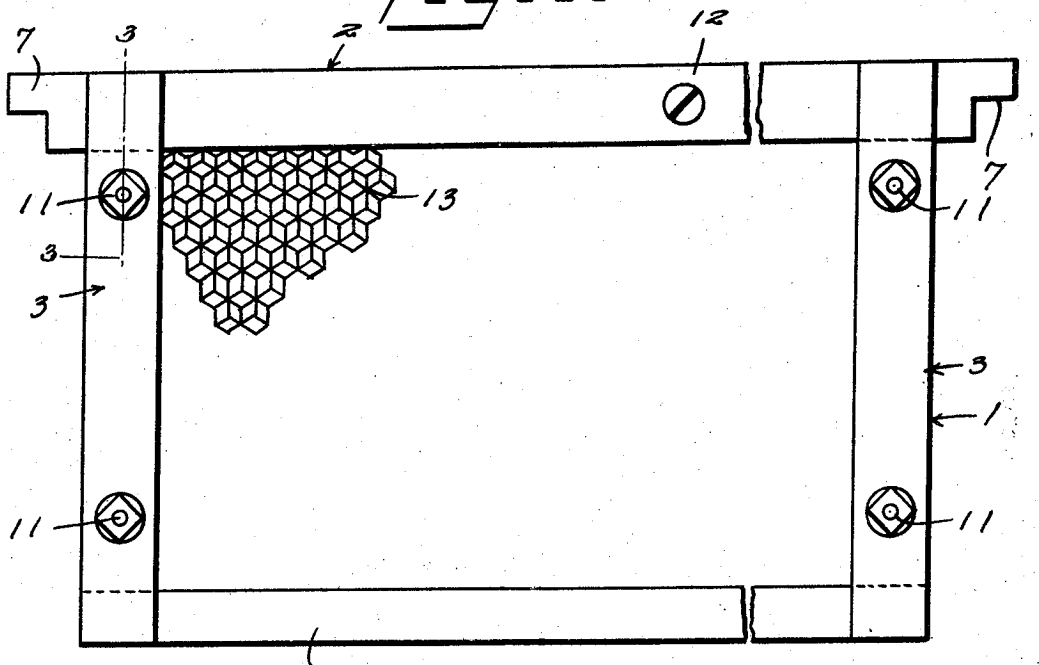


Fig. 2.

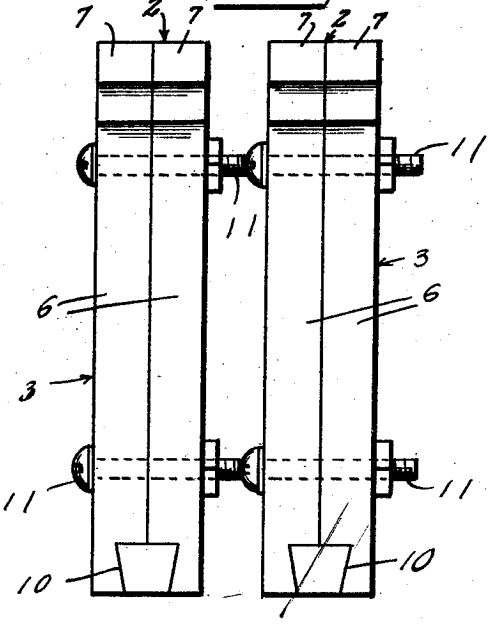
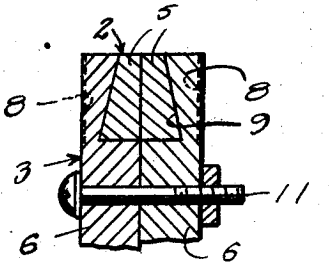


Fig. 3.



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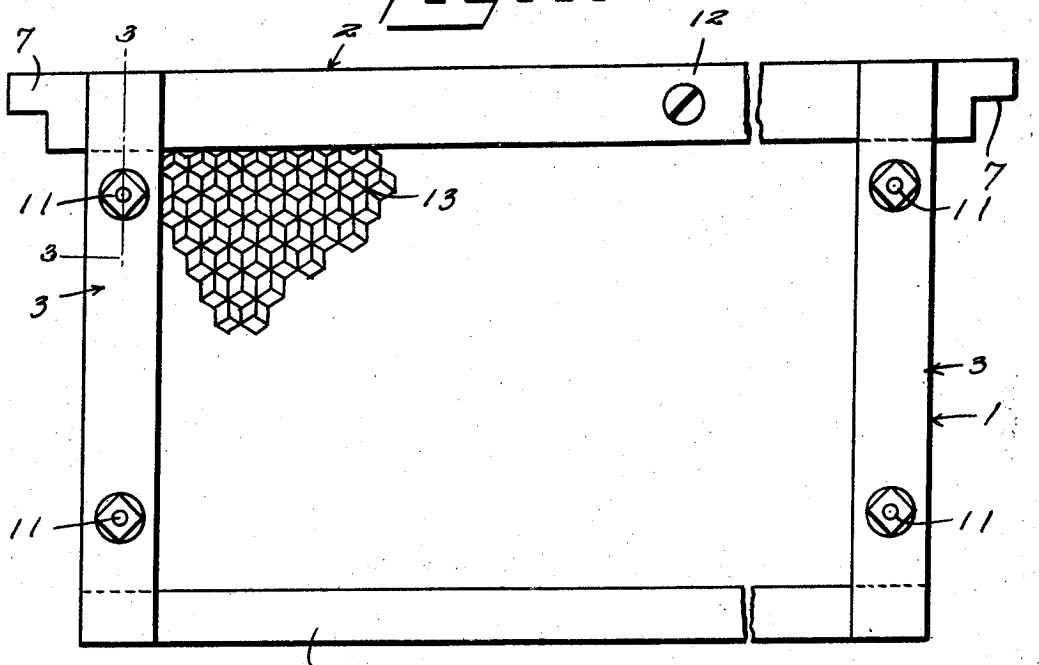


Fig. 2.

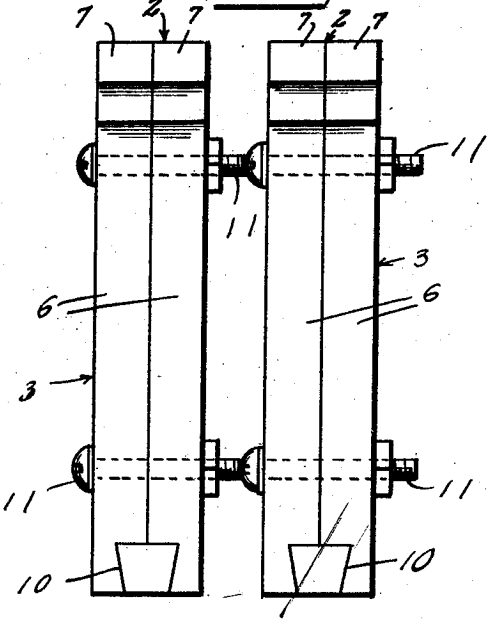
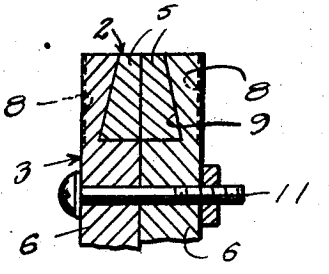


Fig. 3.



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2 making up the side bars 3 of the frame are cut away to form the dovetail recesses 10 which open downwardly from the ends of the members and in each of these recesses there fits one end of the bottom bar 4 which is of dovetailed cross-section throughout as shown.

Each of the side members 3 of the frame has passed therethrough a pair of holding bolts each of which is indicated by the numeral 11 and the bar 2 has a wood screw or other suitable holding element threaded thereinto intermediate its ends as indicated at 12, these bolts and the screw, of course, acting to secure the members making up the top and side bars in assembled relation as will be readily understood and in addition to this they cause the members of the top and side bars to grip the edges of a comb foundation disposed therebetween. The bolts 11 holding the members of the side bars 3 together also cause the side bars to maintain a firm grip upon the top and bottom bars 2 and 4 thus giving a strong rigid frame which cannot be twisted out of the square and which cannot be easily broken.

In placing a comb foundation in the frame 1 the nuts upon the bolts 11 and screw 12 are removed so that the frame top and side bars may be divided into two portions, the lower members retaining the bolts projecting upwardly from the surface upon which the frame may be laid. The foundation which is indicated by the numeral 13 is then placed in position upon the members carrying the holding bolts after which the associate members are placed in position upon the first mentioned members to complete the formation of the top and side bars of the frame, the nuts being replaced upon the holding bolts and drawn up tightly thereon against the adjacent members to secure the members of the bars together and to cause them to grip the edges of the foundation therebetween.

As shown in Figure 2 the bolts employed for holding the members of the side bars together project beyond the bars in which they are positioned so that when the frames are placed in a hive the ends of the bolts will come into contacting relation and thus suitably space the frames.

These contacting bolts hold the frames apart so that the wax of the combs will not cause the frames to adhere one to the other, the only points where adherence may occur being between the contacting ends of the bolts. As these small surfaces may be readily separated it will be seen that the removal of any one of the frames from the hive may be effected without difficulty and without jarring the frames or injuring any of the bees thereon or on adjacent frames.

Having thus described my invention, what I claim is:

1. A brood frame for beehives having top, bottom and side bars, said top and side bars only being longitudinally divisible to form two portions between which the edges of a comb foundation may be secured and means for securing the ends of the bottom bar between the sections of the side bars.

2. A brood frame for beehives having top, bottom and side bars in which the top and side bars only are each longitudinally divided to form coacting members between which the edges of a comb foundation may be placed, and means for securing the members of the top and side bars in gripping relation against an interposed edge of a foundation body the said bottom bar being longitudinally intersected by the plane occupied by the abutting faces of the members of the top and side bars.

3. A brood frame for beehives having top, bottom and side bars in which the top and side bars are each longitudinally divided to form coacting members between which the edges of a comb foundation may be placed, and means for securing the members of the top and side bars in gripping relation against an interposed edge of a foundation body, said top bar being extended beyond the side bars and formed to facilitate the proper suspension of the frame in a hive.

4. A brood frame for beehives having top, bottom and side bars in which the top and side bars are each longitudinally divided to form coacting members between which the edges of a comb foundation may be placed, and means for securing the members of the top and side bars in gripping relation against an interposed edge of a foundation body, said securing means of each frame being of a character to coact with the securing means of an adjacent frame to properly space a plurality of the frames when in position in a hive.

5. A brood frame for beehives having top, side and bottom bars, said top and side bars being longitudinally divided to form of each a pair of coacting members between which the edges of a comb foundation may be gripped, means for drawing the members of the top and side bars firmly togther to grip a foundation, and means for forming a rigid joint between the top and side bars comprising a dovetailed recess formed in the upper end of each side bar to receive therein a portion of the top bar formed in cross-section to fit the recess.

6. A brood frame for beehives, comprising top, bottom and side bars, said top and side bars being longitudinally divided to form each into a pair of coacting members, said top bar adjacent each end being formed to present a dovetail cross-sectional design, said bottom bar being of dovetail cross-sectional design at each end and said side bar members having their confronting faces cut away to form each end of each side bar with a dove-

tail recess therein for the reception of a similarly formed portion of the top or bottom bar, and means connecting the members of the top and side bars for drawing the same together in gripping relation upon an interposed edge of a comb foundation.

In testimony whereof I hereunto affix my signature.

CHARLES E. SANDERS.