No. 660,574. Patented Oct. 30, 1900.

# W. HORNER.

## BEEHIVE BAR FRAME.

(Application filed Aug. 8, 1900.)

(No Model.)

FIG. 2.

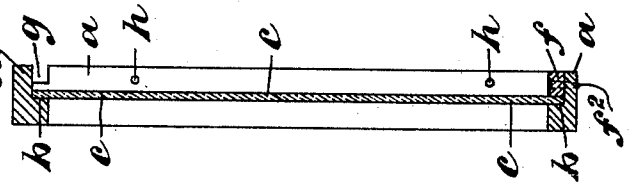



FIG. 3.

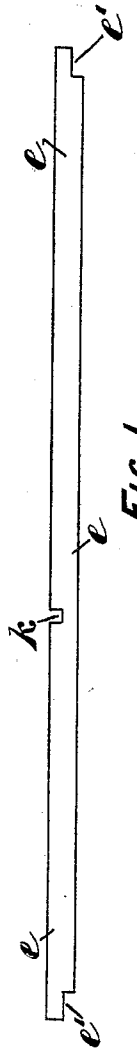
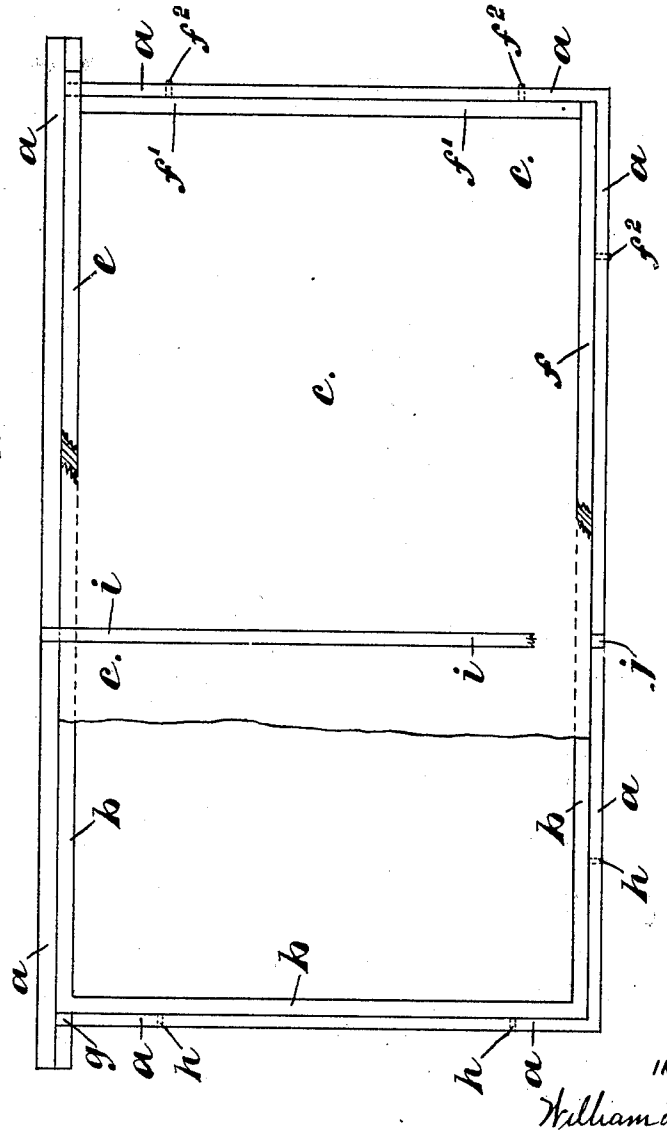



FIG. 1.




INVENTOR

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WITNESSES:

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

# UNITED STATES PATENT OFFICE.

WILLIAM HORNER, OF LIVERPOOL, ENGLAND.

## BEEHIVE BAR-FRAME.

SPECIFICATION forming part of Letters Patent No. 660,574, dated October 30, 1900.

Application filed August 8, 1900. Serial No. 26,273. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM HORNER, a subject of the Queen of England, and a resident of Liverpool, in the county of Lancaster, England, have invented certain new and useful Improvements in Beehive Bar-Frames, of which the following is a specification.

This invention has reference to beehive bar-frames, and has more particularly for its object and effect to provide a frame which will hold the wax sheets which are employed in such frames firmly and steadily and in such a manner that they cannot move about and out of place or warp and at the same time to enable the sheets to be placed in position quickly and with little or no trouble.

My invention is illustrated in the annexed drawings, in which—

Figure 1 is a plan, partly in section, showing the bar-frame; Fig. 2, a sectional elevation of same, and Fig. 3 represents one of the splines or bars for retaining the wax sheet in place.

Referring now to the drawings, *a* shows the four members of the frame, and they are fastened together in any known suitable way, and these frame members are recessed or rabbeted at one side, and the wax sheet *c* is placed in position from the side of the frame and rests upon the ledges *b*, formed by the rabbets. The sheet will therefore be supported on all sides. The sheet *c* is held in the frame and down upon the ledges *b* by means of a spline *e*, fitting over the edge of the wax sheet along the top bar of the frame and secured in position by its ends being cut away at $e'$, and providing notches *g* in the side bars, in which the ends $e'$ of *e* fit, and splines $f f'$ at the lower edge and sides, these being held in place by dowels or pins $f^2$ passing through holes *h* in the frame. The wax sheet *c* is also in some cases further held in place by cross bars or splines *i*, which fit or are held in place by their ends fitting in notches *j* in the lower frame-bar *a* and a notch *k* in the holding-in bar *e*. These bars are particularly useful in the case of the wax sheet being in two parts or pieces. On the other hand, the sheets may be held in place at the opposite edges by the holding-in bars or splines only—namely, by the upper bar *e* and lower bar *f*—the bars $f'$ being dispensed with.

Having now particularly described and ascertained the nature of this invention and in what manner the same is to be performed, I declare that what I claim is—

A beehive bar-frame, the members of which are rabbeted on one side, and have ridges *b* for the wax to rest upon, and having holding-in bars *e f* along their edges above the ledges *b*, the said bar *e* being cut away at its ends at $e'$, and notches *g* being provided in the side frame members in which the ends $e'$ fit, said notches opening to the edge of the frame members; substantially as set forth.

In witness whereof I have hereunto set my hand in presence of two witnesses.

WILLIAM HORNER.

Witnesses:

JOHN HINDLEY WALKER,

AGNES E. LELAND.