

(No Model.)

2 Sheets—Sheet 1.

W. M. BAKER.

RESHIPPING PACKING BOX.

No. 272,513.

Patented Feb. 20, 1883.

Fig. 1.

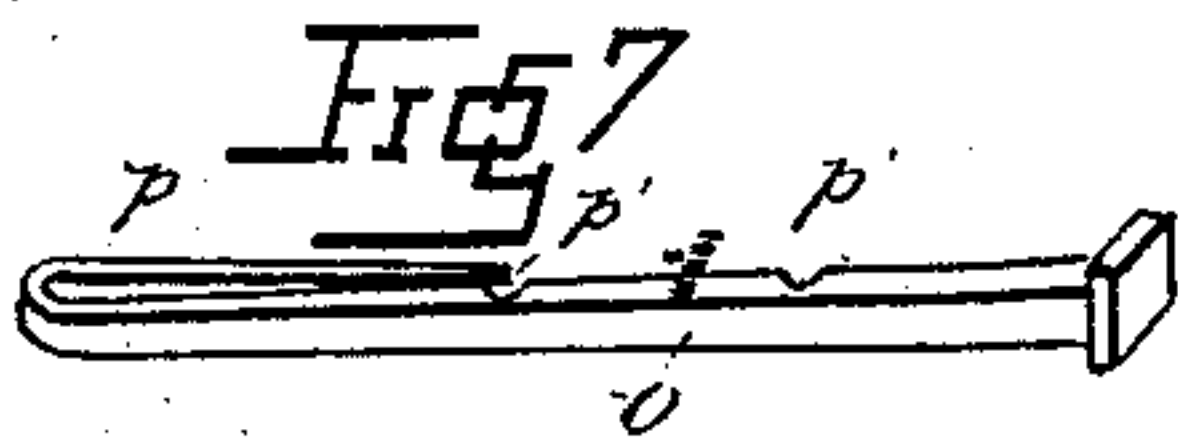
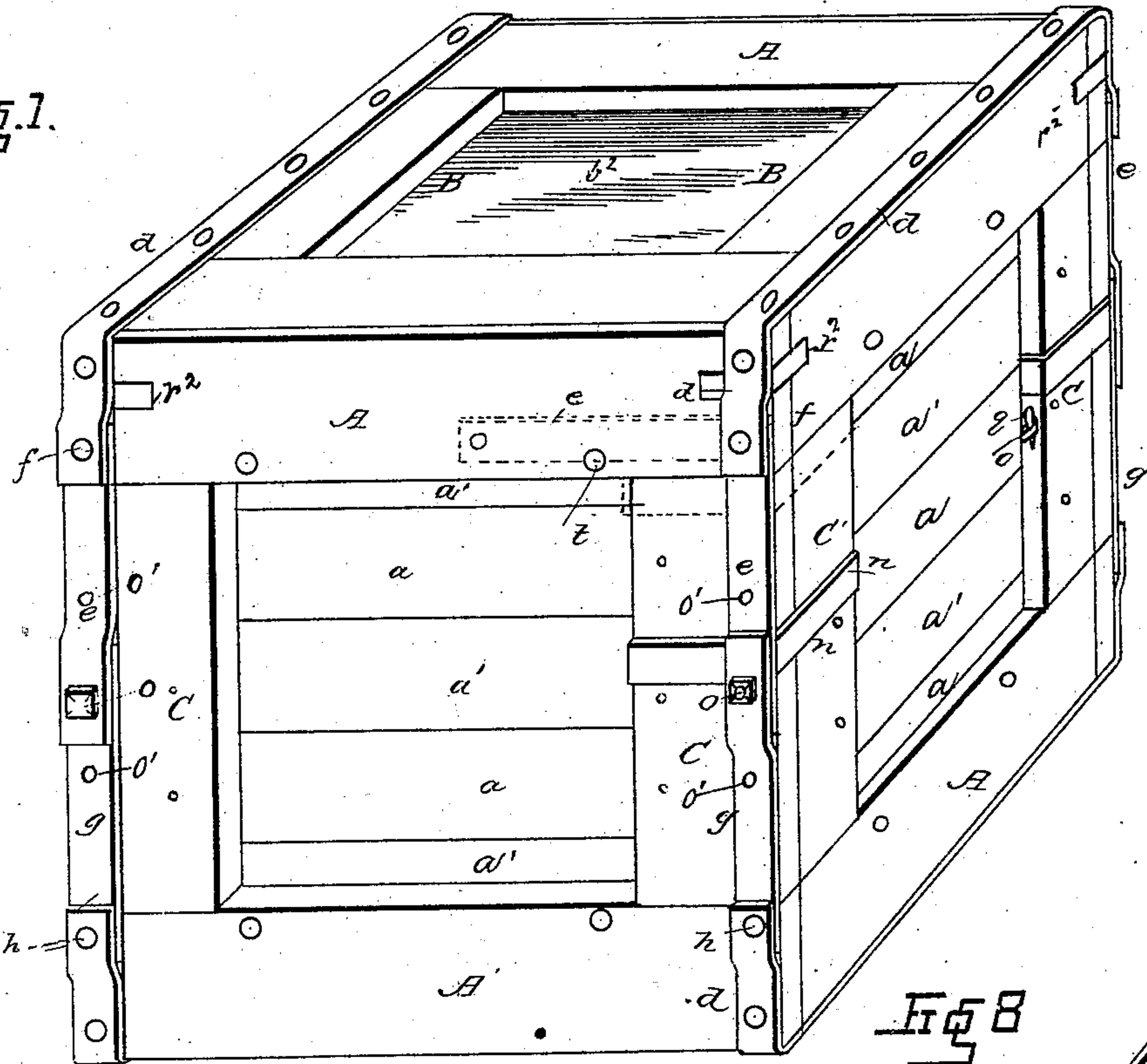


Fig. 8

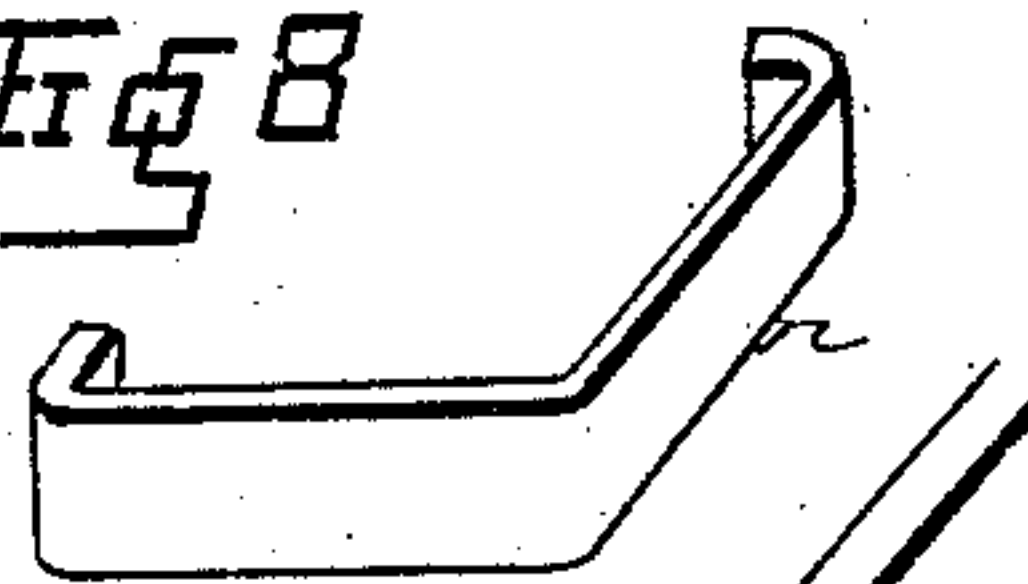


Fig. 3

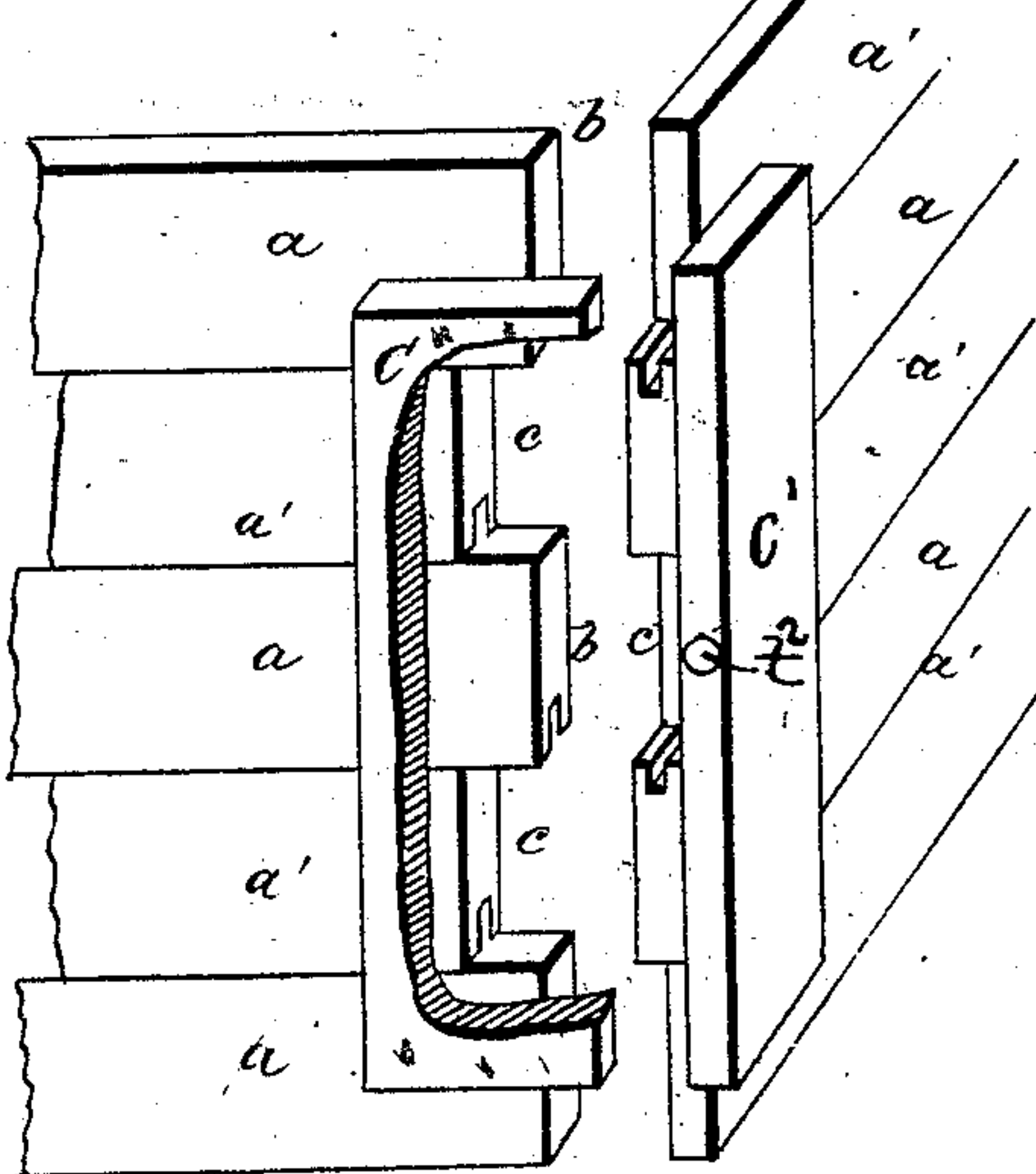
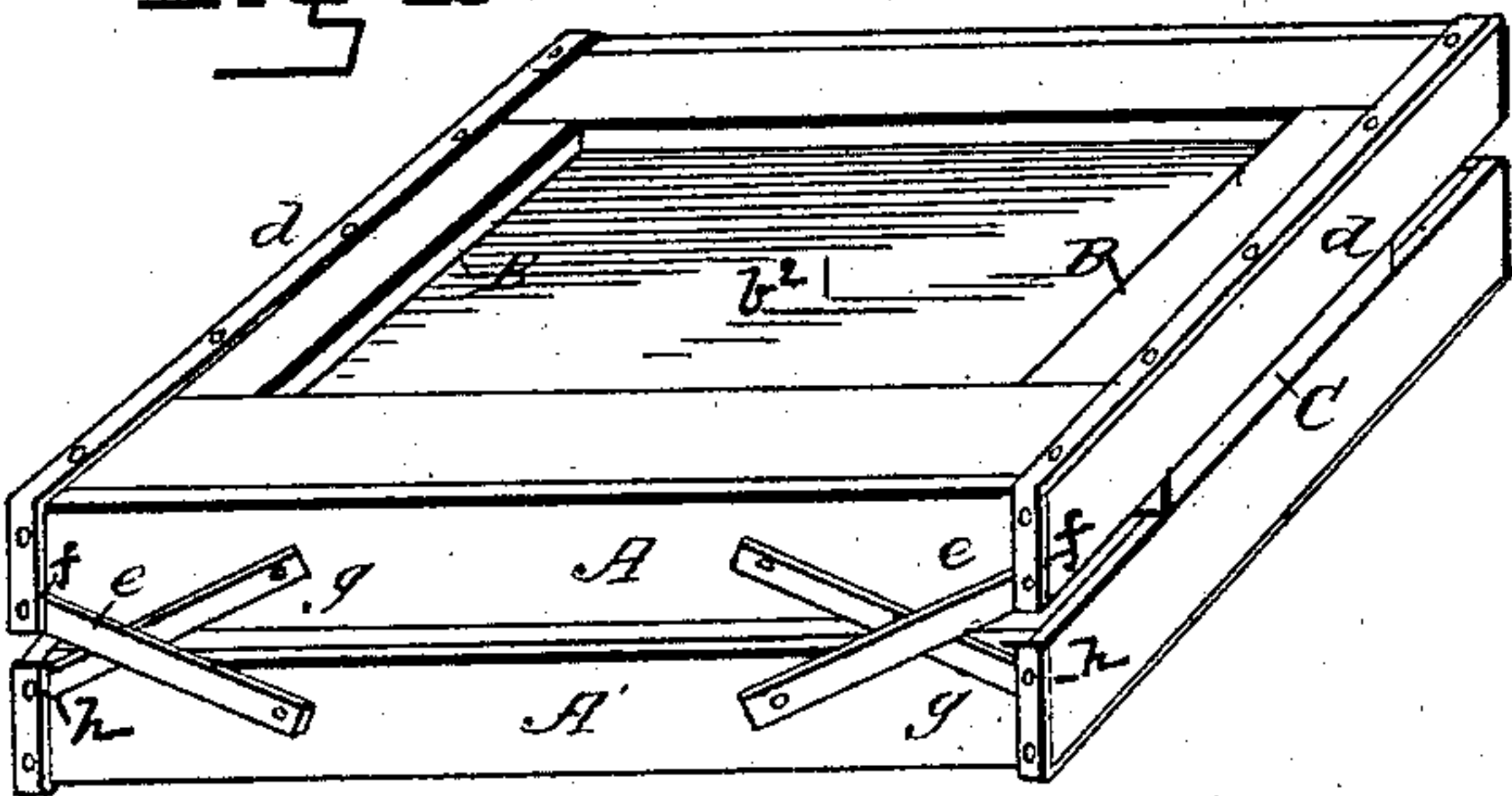


Fig. 2



WITNESSES:

Thos. L. Dieterich
Ed. J. Underwood

INVENTOR.

Wilson M. Baker
By *J. H. Macdonald*
ATTORNEYS

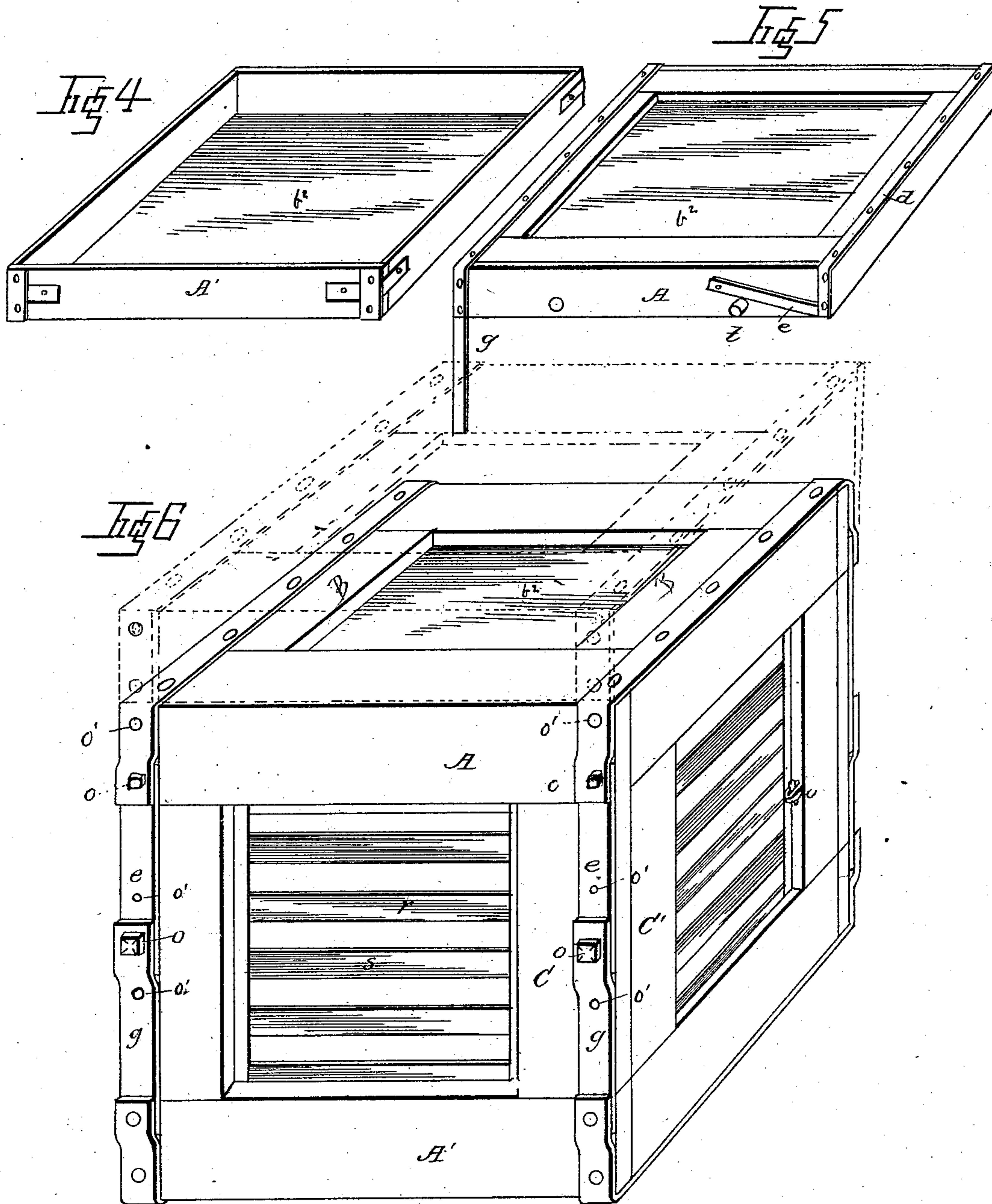
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UNITED STATES PATENT OFFICE.

WILSON M. BAKER, OF URBANA, OHIO.

RESHIPPING PACKING-BOX.

SPECIFICATION forming part of Letters Patent No. 272,513, dated February 20, 1883.

Application filed January 5, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILSON M. BAKER, a citizen of the United States, residing at Urbana, in the county of Champaign and State of Ohio, have invented certain new and useful Improvements in Reshipping Packing-Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to reshipping packing-boxes; and it consists, essentially, of four side sections detachably joined to each other and two removable caps adapted to close the box when filled, the side sections forming the box when filled, as will be hereinafter more fully described in the specification, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of my box when "set up" ready for shipment; Fig. 2, a perspective view of same when taken apart and packed for reshipment; Fig. 3, an elevation (partly in section) of the sides of the box, showing the manner of joining the sides together. Figs. 4 and 5 are perspective views of the end inclosing caps; Fig. 6, a perspective view of my box with crated sides; Fig. 7, a perspective view of the fastening device for the sides, and Fig. 8 a detail perspective of a removable clamp.

The box consists of two removable caps, A, A', and four detachable sections joined to each other by locking joints of peculiar construction. The caps are provided with suitable strengthening-cleats, B. The side sections consist of the tongued and grooved pieces *a a'*, to which the cleats C C' are suitably secured by nails or rivets. The cleats extend beyond the edges of the pieces *a a'*, so as to give them a "backing," and one cleat is made to overlap the other, so that their inner edges are brought flush. Each alternate piece *a* is made to project beyond its contiguous piece *a'*, so as to leave the locking ends and spaces *b c*, the projections *b* entering the space *c*, thus making a close joint. I may use pieces of different lengths in order to provide these locking parts; but in order to save the time and labor of sawing and dovetailing I first cut the pieces *a a'*

to the same length, and then secure them together by the tongues and grooves. I then push each alternate one from the upper to the lower to the right or left just the distance to leave the spaces *c*. As each two of the side sections are joined together I slip over the top of the cleats C C' a metallic clamp, *n*, which serve not only to hold the sections together, but act as bumpers and prevent wearing of the edges. After the sections are thus joined together they are placed in the bottom cap, A', and the box is then ready to be filled. In large-size boxes I prefer to set up the side sections in this cap A'. After the box is filled I place on top the cap A, and secure the caps by means of the pivoted bands *eg*, which are pivotally attached to the caps at *f h*. When the caps are removed these bands are turned parallel with that face of the cap to which it is secured, and held by pins *t*, which enter holes in the sides of the caps, as shown in dotted lines, Fig. 1. I thus get them out of the way and prevent them breaking or bending. When the box is ready to be fastened for shipment, these bands are turned in the direction of the edges of the box, and form a continuation of the guard-strip *d*. They are secured to each other and to the cleats C by bolts or pins *o*, which pass through openings *t²* in the cleats and perforations in the pivoted bands. This pin *o* is provided with the notches *p p'*, into which the bent end of the pin is inserted or bent. I may thus use one pin for different-size boxes by simply bending the pointed end to a greater or less distance. In order to prevent its drawing out, I insert a key, *q*, in the return-bend, as shown in Fig. 1. The caps and sections are thus securely held in place. For additional strength and safety the pins *t* may be inserted through the sides of the caps and ends of the sections.

When the box is to be taken apart and the side sections packed for reshipment, the bolts *o* are withdrawn, the upper cap, A, removed, and the pivoted bands *eg* turned, as described, the clamps *n* removed, and the side sections taken apart and folded upon each other in the cap A'. The top cap, A, is then placed on the folded sections, the bands *eg* crossed and secured to the opposite caps by suitable pins or

fastenings, as indicated in Fig. 2. A box three feet square in the clear can be folded to occupy a space ten inches in depth, thus giving great advantage for reshipping purposes.

5 In Fig. 6, I have shown the sides or sections crated, as at *r s*, and placed in the caps. The caps can be adjusted up and down to accommodate different heights of side sections of boxes or crates, as indicated in dotted lines, 10 Fig. 6. The bolts *o* pass through the bands *e g* and cleats, as before, and auxiliary bolts are inserted in the openings *o'* for additional security. In this instance the ends of the bands do not overlap each other, as they do when 15 the bands are cut to lengths to fit a uniform size of box. This adjustability of the caps is an important feature, for a merchant can use the same caps for any number of different heights of sections. I purposely avoid the use 20 of hinges and complicated angle-irons and fastenings.

My box is easily and quickly put together or taken apart and packed for reshipment.

25 Having thus described my invention, what I claim is—

1. A reshipping packing-box consisting of four side sections detachably joined together and two removable caps adapted to close the box when filled and hold the side sections when 30 the box is taken apart for reshipment, the sections and caps being held in their several positions by pivoted bands, as described.

2. In a reshipping packing-box, the combi-

nation, with two removable caps, forming the top and bottom of the box, of the side sections 35 formed of separate pieces joined to each other and to suitable cleats, the alternate pieces of each section projecting beyond the contiguous one, so as to form locking-recesses, the cleats of adjoining sections covering the ends of the section-pieces and having their edges flush when 40 the sections are joined, substantially as and for the purpose set forth.

3. A reshipping packing-box the end caps of which are provided with pivoted fastening-bands perforated for the passage of bolts or 45 pins, said bands holding the box in its upright or folded position, substantially as and for the purpose described.

4. A reshipping packing-box provided with 50 end caps and perforated fastening-bands *e g*, whereby the caps may be adjusted to different heights of boxes and the parts secured together, as described.

5. In a reshipping packing-box, the combination, with the caps *A A'*, having the pivoted 55 fastening-bands, of the side sections provided with cleats *C O'*, the sections being united, as described, and held by clamps *n*, substantially as and for the purpose set forth. 60

In testimony whereof I affix my signature in presence of two witnesses.

WILSON M. BAKER.

Witnesses:

I. H. McDONALD,
EMMA M. GILLET.