

(No Model.)

J. M. BAKER.
BOX.

No. 510,761.

Patented Dec. 12, 1893.

Fig. 1.

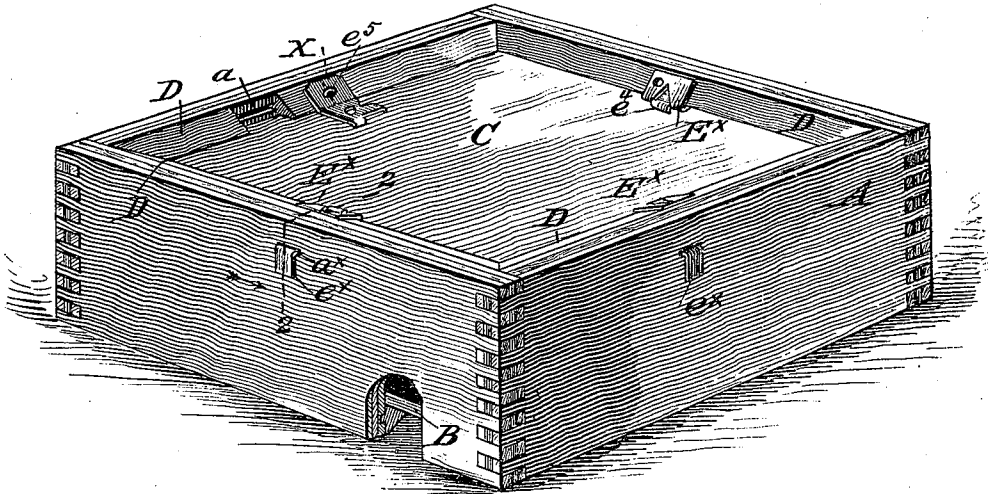


Fig. 2.

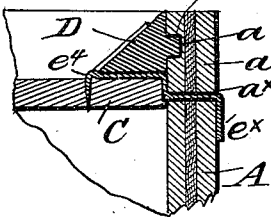


Fig. 3.

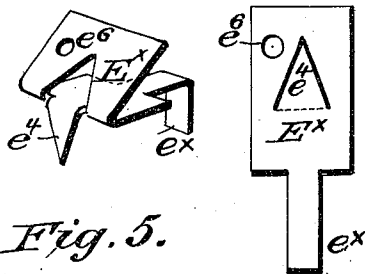


Fig. 4.

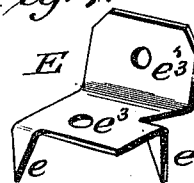


Fig. 5.

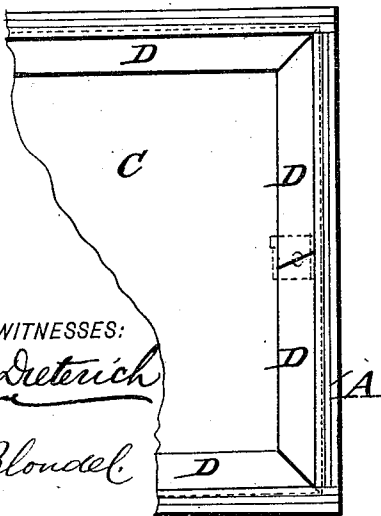
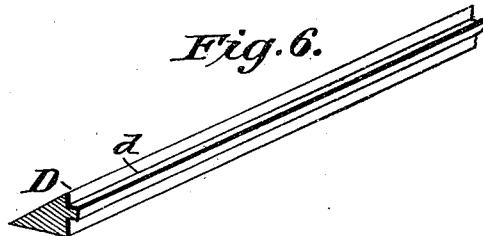


Fig. 6.



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BOX.

SPECIFICATION forming part of Letters Patent No. 510,761, dated December 12, 1893.

Application filed December 19, 1892. Serial No. 455,622. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH MARTIN BAKER, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Boxes, of which the following is a specification.

My invention relates to boxes designed to hold plug tobacco and other substances which are forced into the box with considerable pressure, and it refers more particularly to improvements in a box of this kind for which Letters Patent were granted me May 31, 1892, No. 476,121.

In my patent referred to, suitable means are provided for holding the sides and ends (top and bottom) together, where the material put into the box, is highly compressed; such means being in the nature of staples, which fit cut out portions in the sides of the box, and which clamp the said sides and ends together; and to prevent such staples from becoming loosened, and to effectively prevent entrance of moisture at the points between such end and side portions, such points are covered with strips held in place by nails. In the practical use of such box, I have found that by clamping the sides and ends, by clamps, and the strips by nails, makes it impossible to open the box without destroying the looks of the package. To overcome this serious objection, and to provide a box, in which thinner end pieces can be used, which will be stronger, require no nails, in which the clamps before referred to are dispensed with and the necessity of notching the ends of the sides is avoided, and which will be so constructed that it can be opened without any trouble, in less time, and remain the neat looking package it was before it was opened, are the objects of the present invention.

To these ends my invention consists in the peculiar combination and novel arrangement of parts, hereinafter fully described in the specification and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of a box with my improvements applied. Fig. 2 is a cross-section of a portion thereof taken on the line 2—2 Fig. 1. Fig. 3 is a perspective view of

one of the clamps. Fig. 4 is a similar view of a modified form of clamp. Fig. 5 is a plan view of a portion of a box, showing one of the strips formed in two sections, and Fig. 6 is a perspective view of one of the strips hereinafter more specifically referred to.

Referring to the accompanying drawings A indicates the sides, B the bottom end and C the top or cover, which in their general construction are preferably substantially that shown in my other patent referred to, it being obvious however that such sides and ends may (except in such particulars as hereinafter stated) be of the ordinary construction. The sides A of the box are formed each with grooves *a* at their projecting edges *a'* which are adapted to receive tongue portions *d* formed on the rear faces of the lock strips D; the size of such grooves and tongues in practice depending upon the strength the box requires. Each of the strips D, is of the same length as the box, cut to form a square miter; and such strips, as will be clearly understood from the drawings, fit over the edges of the sides and top and bottom ends, to close such ends, and hold them in place. These strips are placed in position over the ends, as shown and can all be of a full length, and when of full length the last strip is forced into position by bending. In some instances, it may however be preferable to make one of such strips in two sections, which are placed together as shown in Fig. 5; in such case however a suitable fastener is placed over the meeting ends of such sections, as clearly shown in Fig. 1. By providing the strips with tongues to enter the grooves *a* and springing such strips in place, effective means are provided for holding the ends of the box in place and keeping out the moisture at such ends—where the contents are held under pressure. To hold the strips from falling out by a sudden jar, as the boxes are rolled over the floor, or otherwise jostled, I use a lock clamp which consists of a strap metal plate E, formed with prongs *e* which enter the ends, the body *e* of which bends over the upper face of the strip as shown at X in Fig. 1, and such plate has an aperture *e'* adapted to receive the end of a sharp tool, whereby it can be quickly removed.

When a clamp plate constructed as described is used, I sometimes secure its upper end to the sides of the box by a nail e^5 as shown, which also serves to bind the sides and ends together.

On all boxes where the tobacco is pressed in with great pressure, I prefer to use a clamp lock constructed as shown in Fig. 3 in detail, it being preferred, in that it forms a very effective lock for holding the sides and ends together and the strips in place without the necessity of using any nails.

It will be noticed by reference to the aforesaid figure (which shows the "blank" and finished form of clamp) that such clamp consists of a plate E^x cut with an extension e^x at one end and a barb e^5 near its other end, which end also has a tool receiving aperture e^6 . The manner in which this clamp E^x is used is most clearly shown in Fig. 2, by reference to which it will be seen that the extension e^x is passed through a slit a^x in the side of the box, below the top and bottom end sections, and is bent down on the outside of the box. The body proper is extended up between the end and side, and is bent down over the end or top, its barb being forced into the top or end member. The strip D is then placed in position over the body of the clamp, after which its upper end is bent back over the strip D as shown.

By this arrangement a simple, inexpensive and effective clamp lock is provided which will securely hold the ends and sides together, and keep the strips D in place, without the use of nails; it being capable of being easily bent up by a suitable tool or sharp instrument to permit the top being lifted off without the necessity of hammering or otherwise defacing the package.

Having thus described my invention, what

I claim, and desire to secure by Letters Patent, is—

1. In a packing box the combination with the side and end portions, said side portions having grooves a , at a point above the ends, the strips D fitted over the meeting edges of such sides and ends, having tongues fitting the grooves, and a clamp member secured to the sides, having a portion projected upward over the end piece, and under the strip D, its free end terminating in a lap portion adapted to lap and fold over the said strip, all substantially as and for the purpose shown and described.

2. An improved packing box comprising the sides A, the end C, the strips D fitted over the meeting ends of such sides and end sections of the box, and clamp members, secured to the side portions, formed with a horizontal member fitted over the ends C, having a barb adapted to enter such end C, the free end of the said clamp having a lap end adapted to fit over the strips D such lap end having an aperture e^6 all substantially as and for the purposes described.

3. The improved packing box comprising the sides A, having grooves a at its upper end, the end C and the strips D having tongues d , loosely fitted in the grooves a , and the clamp E^x , formed of a base portion secured to the sides A, and projected inward under strips D, and formed with a barb adapted to enter the end C, its free end terminating in a lap portion adapted to be bent up over the said strip all substantially as shown and for the purposes described.

JOSEPH MARTIN BAKER.

Witnesses:

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