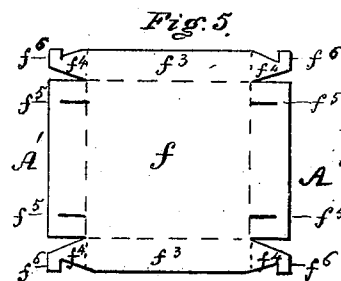
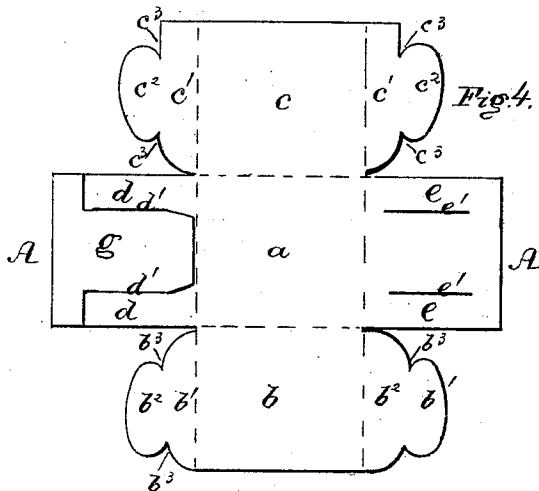
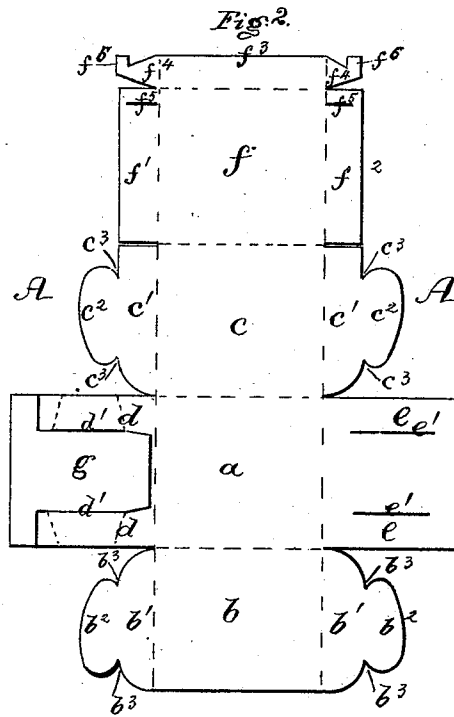
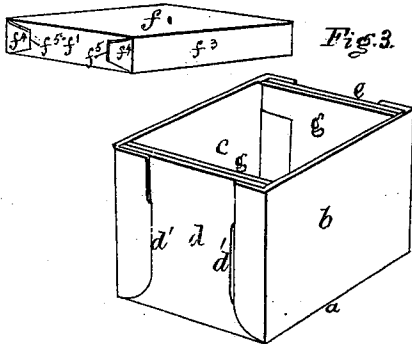
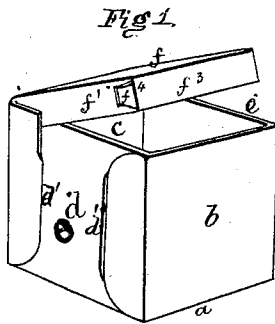


R. RITTER.
PAPER-BOX.

No. 171,866

Patented Jan. 4, 1876.



Witnesses:
G. B. Townsend.
Colborne Brookes

Inventor:
Reuben Ritter
per Robt. A. Leary atty.

UNITED STATES PATENT OFFICE.

REUBEN RITTER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN PAPER BOXES.

Specification forming part of Letters Patent No. **171,866**, dated January 4, 1876; application filed September 18, 1875.

To all whom it may concern:

Be it known that I, REUBEN RITTER, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Paper Boxes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in the manufacture of paper boxes and covers without the use of paste, glue, or mucilage, whereby such boxes, when put together, cannot readily be taken apart, and also by reason of the peculiar configuration of the blanks I am enabled to manufacture boxes out of cheaper kinds of paper than is ordinarily used for the purpose.

The nature of my invention will be fully explained by reference to the accompanying drawings, in which—

Figure 1 represents a box and cover, constructed according to my invention. Fig. 2 represents a plan view of the blank for forming the box and cover represented by Fig. 1. Fig. 3 represents a slight modification of the box and cover represented by Fig. 1, and Figs. 4 and 5 represent the blanks for forming the box and cover represented by Fig. 3.

In each of the views, similar letters of reference are employed to indicate corresponding parts wherever they occur.

A represents the blank from which the box is to be formed. This blank, according to the arrangement shown in Fig. 2, is cut from a single sheet of card-board, or other suitable material, the dotted lines representing the creases on which the parts are to be folded.

The part *a* forms the bottom of the box, the parts *b* and *c* the front and back, and the parts *d* and *e* the sides thereof, while the part *f* forms the top. The parts *d* and *e* have elongated cuts *d'* *d'* *e'* *e'* formed in the same parallel with the edges thereof, and adapted, when the parts *b c d e* are folded into a vertical position at right angles, to the part *a*, and the extensions *b'* *b'* and *c'* *c'* of the parts *b c* are folded at right angles to the said parts *b c*, to allow the curved retaining-pieces *b² b² c²*

c² to be passed through the same, and when so passed through to be firmly retained by reason of the slots *d' e'* passing into the notches *b³ c³* and firmly connecting the bottom *a*, front and back *b c*, and sides *d e*, firmly together. This having been done the sides *f¹ f²* and front *f³* of the top *f* are then folded at right angles to the top *f*, and the retaining-piece *f⁴* folded around and passed through the slots *f⁵*, when the projecting portion *f⁶* of the retaining-piece *f⁴* will prevent the withdrawal of the retaining-piece *f⁴* and hold the top or cover *f* in correct form. *g g* are locking-cords, provided with suitable extensions for insertion in the elongated cuts *d' e'*; they protect from injury the curved retaining-pieces *b² c²* after the latter have been passed through the cuts *d' e'*. Figs. 4 and 5 represent blanks to form the box and cover represented by Fig. 3. In this case the cover is formed separately from the box, and for this purpose the blank *A* is formed without the parts *f f¹ f² f³ f⁴ f⁵*. The blank *A'* for the cover *f* being formed separately, as shown by Fig. 5, with the parts *f³ f⁴ f⁵* duplicated on the back. In every other respect the box and cover in this case are similarly constructed to those indicated by Figs. 1 and 2.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A paper box, consisting of the parts *a b c d e*, connected together by curved retaining-pieces *b² c²* passed through slots *d' e'*, in the manner and for the purpose described.

2. A box-top, consisting of the parts *f f¹ f² f³*, connected together by notched extensions *f⁴* passed through slots *f⁵*, in the manner and for the purpose described.

3. A box and top, consisting of the parts *a b c d e f f¹ f² f³*, the parts *a b c d e* being connected together by retaining-pieces *b² c²* passed through slots *d' e'*, and the parts *f¹ f² f³*, by means of notched extensions *f⁴*, passed through slots *f⁵*, in the manner and for the purpose described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

REUBEN RITTER.

Witnesses:

J. T. COLDWELL,
F. D. CLEARY.