W. F. TILLINGHAST.

Frames for Making Straw-Envelopes for Bottles.

No. 136,394. Patented March 4, 1873.

Fig. 1.

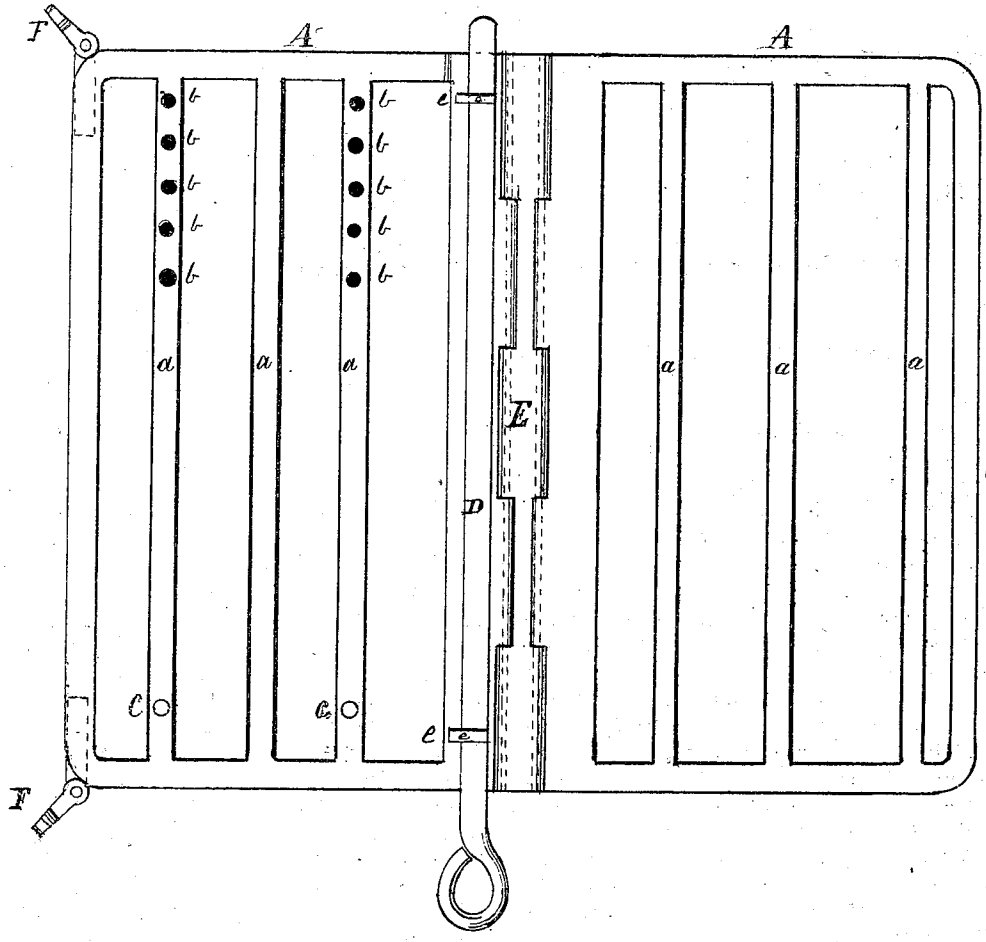


Fig. 2.

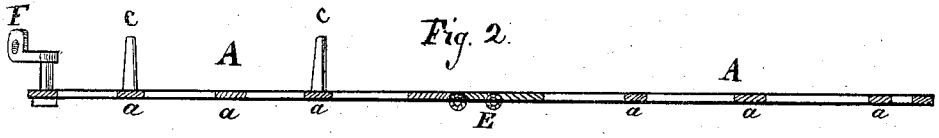
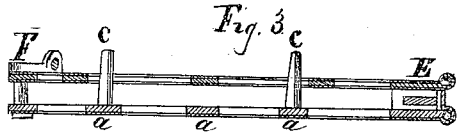


Fig. 3.



Witnesses

A. L. Sewell

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UNITED STATES PATENT OFFICE.

WILLIAM F. TILLINGHAST, OF BURLINGTON, NEW JERSEY.

IMPROVEMENT IN FRAMES FOR MAKING STRAW ENVELOPES FOR BOTTLES.

Specification forming part of Letters Patent No. **136,394**, dated March 4, 1873.

To all whom it may concern:

Be it known that I, WILLIAM F. TILLINGHAST, of Burlington, New Jersey, have invented certain Improvements in Straw Covers or Envelopes for Bottles, of which the following is a specification:

This invention is intended to facilitate the manufacturing of straw covers or envelopes for bottles to prevent breakage when packed for transportation.

Figure 1 represents an open frame of light metal, A A, having three or more bars, *a a*, running across it from one side to the other in each half of the frame. Two of the bars on the left-hand end contain holes *b b* for receiving movable pins. At *c c* the same bars have two stationary pins. By inserting movable pins in two of the holes first mentioned the width of the intended envelope is regulated, as I can thus at pleasure increase or lessen the distance between the stationary pins *c c* and those that are movable. Having covered the frame with straw between the pins *c c*, and the movable ones set up where they may be needed, the straw being placed lengthwise of the frame, I place on the straw a flat metal bar, D, which slips under the two staples *e e* set in the frame, and open at their ends to receive the bar. The bar holds the straw firmly down on the frame. The right-hand half of the frame is now turned over on the other half by means of the double hinge E, which is in the center of the frame; but the cross-bars *a a* do not antagonize. By this operation the straw covering one half of the frame is turned over on that contained on the other half, and is also neatly broken into a uniform edge over the bar D. The two halves of the frame are then held together by means of the turn-screws or turn-buckles F F on the corners of the left-hand end of the frame. The straw thus held in position is then sewed between the cross-bars either by machine or any other convenient process. The frame is then opened, the bar D withdrawn, the straw mat taken from the frame, and the two edges tied together, thus forming a cylindrical envelope, which is afterward tied at the top, the top trimmed, and it is then ready for use.

Fig. 2 is a section of the frame when spread open and ready to receive the straw. Fig. 3 is a section when shut up and fastened by the turn-buckles.

I claim as my invention—

The hinged frames A A with bars *a a*, holes *b b*, and pins *c c*, in combination with the bar D and buckles F, as and for the purpose specified.

WM. F. TILLINGHAST.

Witnesses:

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