(No Model.)

C. E. BOLTON.

DEVICE FOR HANDLING FILLED BOXES OR PACKAGES.

No. 258,981. Patented June 6, 1882

Fig. 1.

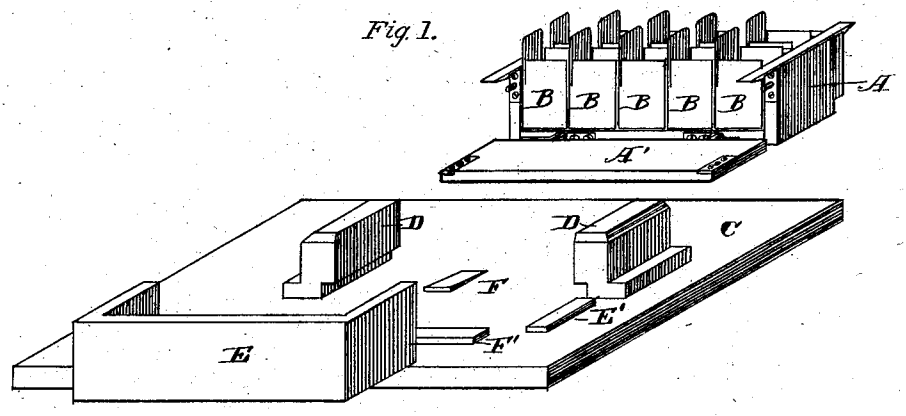


Fig. 2.

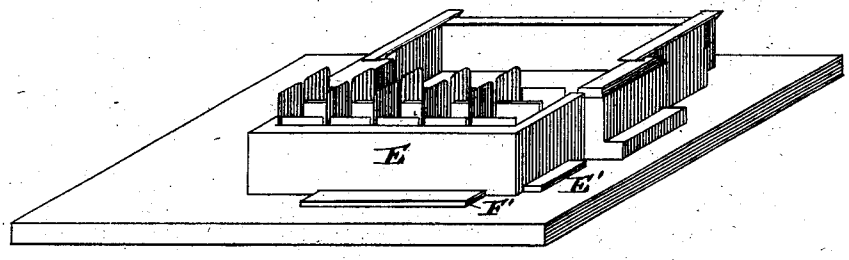
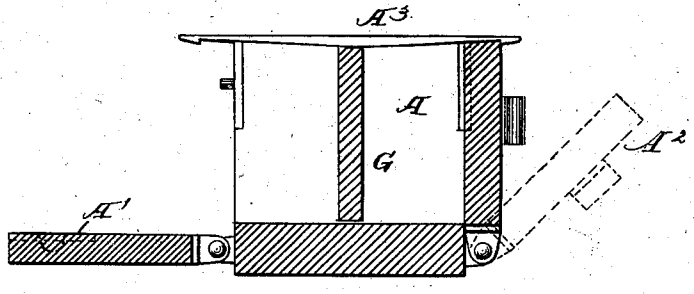


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

CHARLES E. BOLTON, OF CLEVELAND, OHIO.

DEVICE FOR HANDLING FILLED BOXES OR PACKAGES.

SPECIFICATION forming part of Letters Patent No. 258,981, dated June 6, 1882.

Application filed September 9, 1880. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. BOLTON, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Devices for Handling Filled Boxes or Packages; 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to a device for handling filled boxes or packages after they have been filled by mechanism constructed for that purpose, and it may at the outstart be understood that this invention may be used in connection with any box or package filling machine.

In the drawings, Figure 1 represents in perspective a device constructed according to said invention, the different parts being separated to show their method of employment and construction. Fig. 2 is a similar view, showing the parts united as in the act of transferring a nest of filled boxes. Fig. 3 is a view of a "prime receiver" in vertical cross-section, illustrating its construction as concerns the hinged and swinging sides.

A is a prime receiver designed to retain the boxes B while being filled. This prime receiver is constructed of any size, character, or dimensions suitable for the particular box-filling machine with which it is to be used.

C is a floor, table, or other surface, to which are securely attached two guides, D, between which the prime receiver, A, is slid and retained while transferring the filled boxes B from the prime to the second receiver, E.

F is a raised piece, that can be employed or not, as found desirable. Its function is to bring the hinged side A′ of the prime receiver, A, when it is opened and employed, as indicated in Fig. 2 of the drawings, upon a level with the bottom of the second receiver, E, so that the filled boxes can be slid from one into the other more readily. This piece F may either be fixed upon the floor or table, as shown, or it may be attached to the outside of the hinged side A′, where it will serve the identical purpose just specified.

The prime receiver, A, will be seen to consist essentially of a box, opened above, and provided with hinged and swinging sides A′ A^2, that are held in closed position by any suitable latch, button, or lock, A^3.

Two or more prime receivers are to go with every box-filling machine, so that while one is being emptied another at the same time may be filling.

The second receiver, E, consists essentially of a box such as illustrated in the drawings, having one side and its top open, and its bottom, its ends, and one side closed. Several of these second receivers, E, should accompany each box-filling machine.

E′ represents cleats or other suitable guides or stops upon the floor or table C, for retaining the second receiver in its proper position relative to the prime receiver.

G is a loose and removable piece of wood or other suitable substance, that serves the double purpose of a partition between the filled boxes B and as a pusher in transferring the filled boxes from prime to second receiver.

The operation of this invention is as follows: Empty boxes or receptacles B are placed in a prime receiver and filled by any box-filling mechanism. When filled this prime receiver is removed from the box-filling machine (and another one with empty boxes substituted) and taken to the table C, where a second receiver, E, is waiting, held by its cleats E′, as already described. The side A′ of the prime receiver is now freed, and swung out and slid between its guides D until it abuts against the floor of the second receiver, E. The floors of the prime and second receivers now being on the same level, the filled boxes can be readily transferred to the second receiver, and this is effected by removing the partition G and placing it behind the filled boxes and using it as a pusher to slide said boxes over from the prime to the second receiver. The second receiver is now removed and taken to the packing-room, and an empty one put in its place

on the table C, while the emptied prime receiver is withdrawn from its guides D and returned to the box-filling machine.

What I claim is—

1. The combination, with a prime receiver, A, having swinging sides A′ A^2, constructed to be locked in closed position, of a second receiver, E, substantially as and for the purpose shown.

2. In combination, a prime receiver, A, having swinging sides A′ A^2, constructed to be locked in closed position, guides D, and a second receiver, E, substantially as and for the purpose shown.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES EDWARD BOLTON.

Witnesses:
JNO. CROWELL, Jr.,
WILLARD FRACKER.