A ADAMS.

Improvement in Paper-Bag Machines.

No. 114,743. Patented May 16, 1871.

Fig. 1.

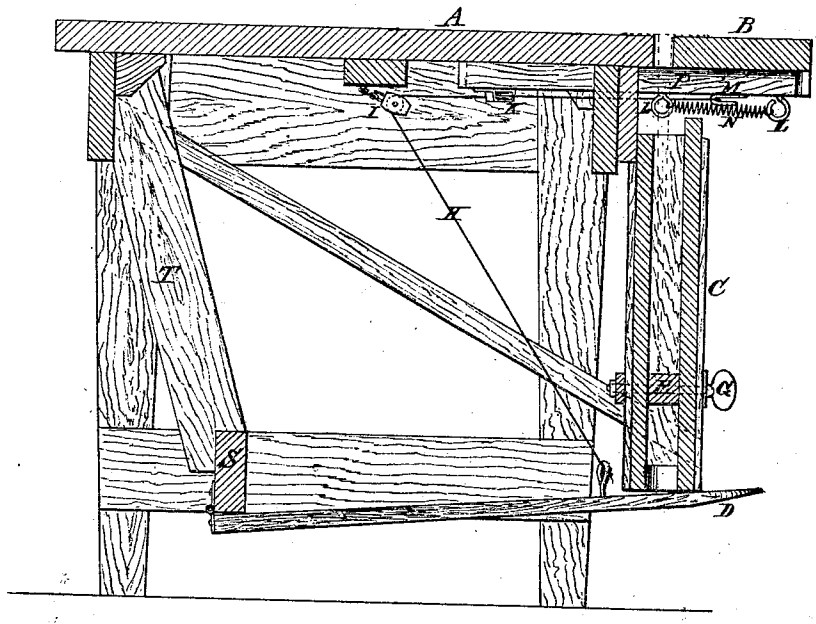


Fig. 2.

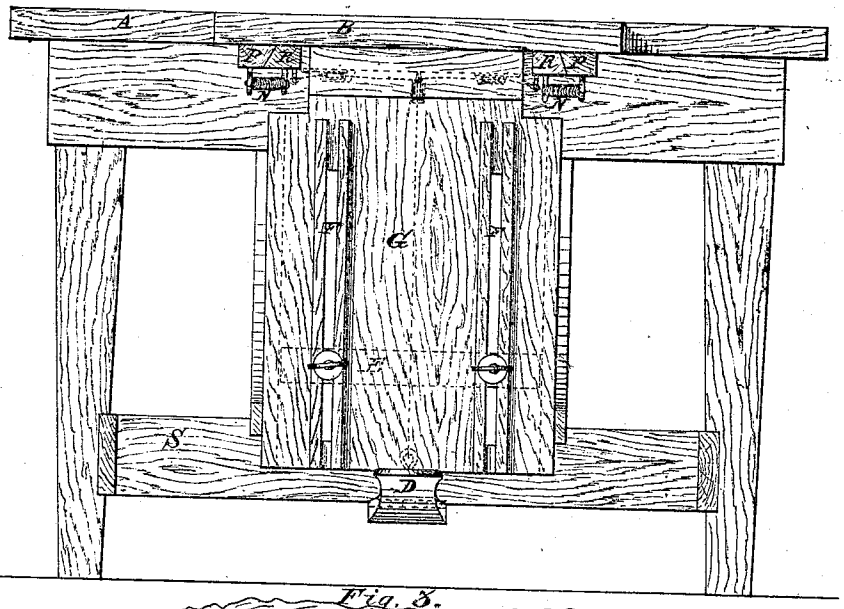
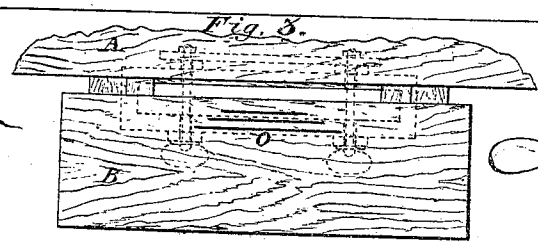


Fig. 3.



Witnesses:

George A. Nolan

H. Garnett

Inventor:

Alfred Adams

UNITED STATES PATENT OFFICE.

ALFRED ADAMS, OF CHAGRIN FALLS, OHIO.

IMPROVEMENT IN PAPER-BAG MACHINES.

Specification forming part of Letters Patent No. **114,743**, dated May 16, 1871.

To all whom it may concern:

Be it known that I, ALFRED ADAMS, of Chagrin Falls, in the county of Cuyahoga and State of Ohio, have invented certain Improvements in Tables for Making Paper Bags, of which the following is a specification, reference being had to the accompanying drawings, like letters referring to like parts.

Figure 1 is a vertical transverse section of the table. Fig. 2 is a front view of the same. Fig. 3 is a face view of a section of the table, showing the whole of the supplementary table or leaf.

A is an ordinary or common table, to which is attached the supplementary and movable table or leaf B. C is an oblong box, having its upper and lower ends open, into which box is fitted the movable piece or false bottom E, with its thumb-screws G, a transverse section of which box, movable bottom, and thumb-screws is represented by dotted lines in Fig. 3. D is a treadle, hinged to the cross piece or bar S, which bar is stiffened by the brace T. H is a cord attached to the treadle D, which, after passing over the pulley I, divides the ends, respectively, passing over the pulleys K, and, after being knotted, are passed through or into the hooks M, the knotted ends making a secure fastening. P P are wooden bars or slides, upon which the table B rests, having their inner surfaces or sides beveled. R R are wooden guides attached to the under surface of the table B, having their external surfaces or sides beveled, all of which are represented in Fig. 2. N N are spiral springs, having their ends, respectively, fastened by open hooks to the under surfaces of P and R. F F are slots in the box C. O are grooves or lines in the surface of the table or leaf B, which serve as gage-lines to guide the operator when forming the bottoms of the bags, thereby securing greater uniformity in their size and shape. The table may be made of wood or any other proper material possessing the requisite strength. The table B may be supported by arms or levers hinged or attached to the floor, or to the table A at a point sufficiently near to the floor to prevent the oscillation of the table B from producing an objectionable departure from a horizontal position.

The springs N N and cord H, by their method of attachment, are readily loosened, so that the table B may be easily removed for cleaning, which is daily necessary, and the false bottom E can be readily taken out for a like purpose by the loosening and withdrawal of the thumb-screws G. The beveled slides P and guides R are much less likely to clog up with paste than if made with tongue and groove. All of these considerations are of weight, as the movements of the operator are so rapid that more or less paste will of necessity be scattered upon the table and its exposed parts.

The operations of my machine are as follows: The table or leaf B is held in the position as seen in Fig. 1 by the action of the springs N, leaving a crevice or opening for the reception of the paper tubes preparatory to the operation of forming the bottoms of the same. The false bottom F, which is readily adjusted and held in the desired position by the thumb-screws G, serves as a support for the paper tubes as they are dropped into the opening, and also as a guide or stop, so that they shall only drop through so far as may be desired to leave the proper length or portion of the tube projecting above the table, out of which to form the bottom of the bag, and by raising or lowering the false bottom the table may be used for large or small bags at pleasure. When the tubes are thus placed in proper position the treadle D is depressed by the foot of the operator, thereby tightening the cord H, and bringing the table or leaf B toward the table A, tightly clasping the paper tubes, and holding them while the projecting parts are folded down into the desired form and secured by the application of paste; then, by the removal of the foot from the treadle, the operator readily withdraws the completed bag, and so on, withdrawing the bags one by one till all are withdrawn and a new supply of tubes required.

I claim as my invention—

1. The combination of the table A, leaf B, and treadle D, or their equivalents, substantially as and for the purpose set forth.

2. The combination of the table A, leaf B, and box C with its adjustable false bottom or support E, or their equivalents, substantially as and for the purpose set forth.

ALFRED ADAMS.

Witnesses:

GEORGE A. NOLEN,

H. GARRETT.