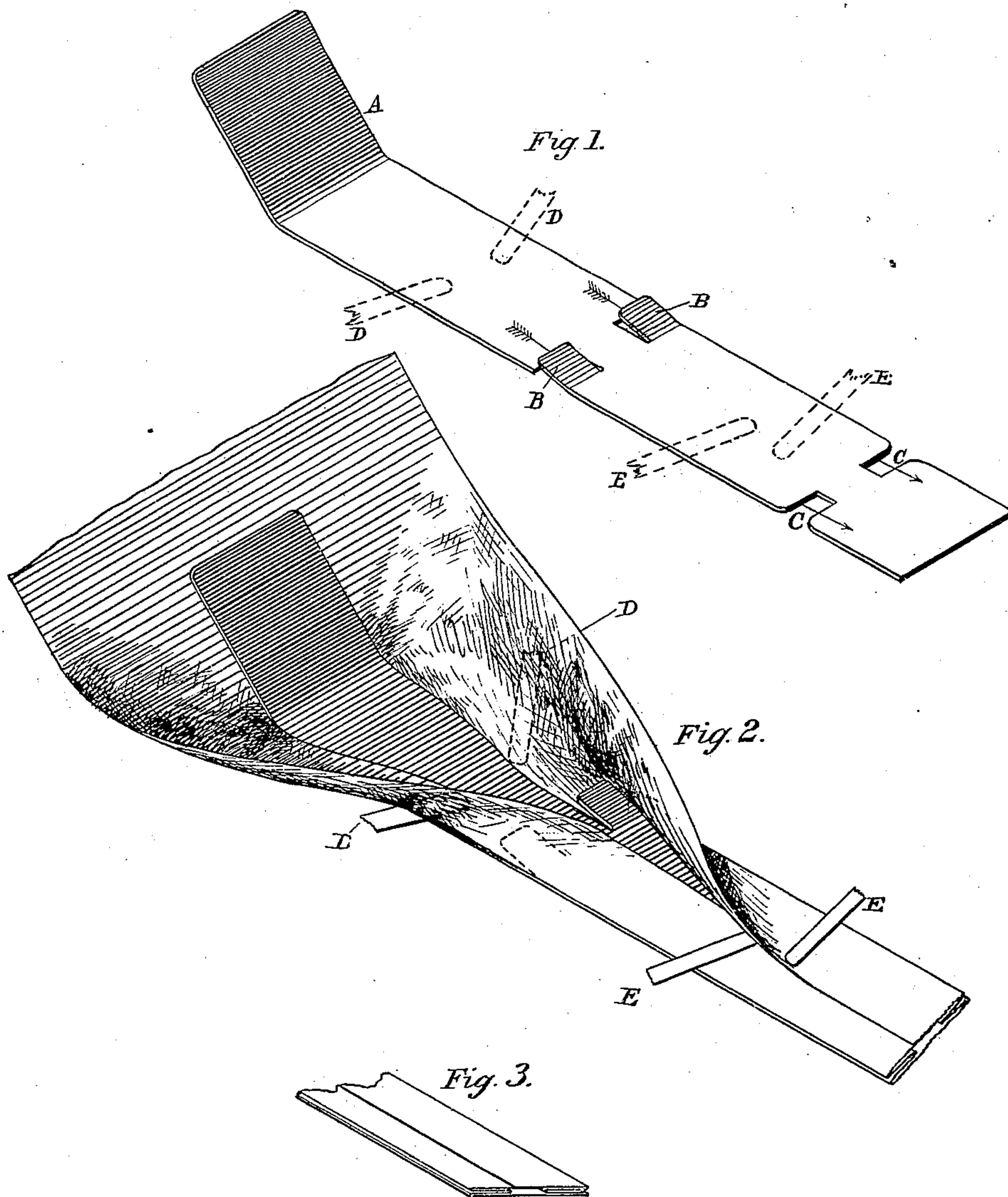


(No Model.)

D. APPEL.
Former for Paper Bag Machines.

No. 241,113.

Patented May 10, 1881.



WITNESSES

J. J. Lehman.
Geo. Crowell Jr.

INVENTOR

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UNITED STATES PATENT OFFICE.

DANIEL APPEL, OF CLEVELAND, OHIO, ASSIGNOR TO HIMSELF AND
NEWTON W. TAYLOR, OF SAME PLACE.

FORMER FOR PAPER-BAG MACHINES.

SPECIFICATION forming part of Letters Patent No. 241,113, dated May 10, 1881.

Application filed October 4, 1880. (No model.)

To all whom it may concern:

Be it known that I, DANIEL APPEL, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful
5 Improvements in Formers for Paper-Bag Machines; 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
10 it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to paper-bag machinery, and more particularly to that class of paper-bag machines that are adapted for making
15 the square bag provided with side folds or plications; and it consists in an improved former, by means of which and suitable guides the side folds of the tube are made as the paper is
20 drawn over and about the former.

In the drawings, Figure 1 is a view, in perspective, of my improved former. Fig. 2 is a view of the same surrounded by paper and indicating the manner in which the plicated
25 tube is made. Fig. 3 is an isometric view of the completed tube.

In the said drawings, A represents a former, which may be constructed of any material, but preferably of sheet metal.

30 BB indicate lateral upturned lips or tongues, formed preferably from a portion of the former A. The distance between these lips or tongues BB should be about equal to the width of the seam and the width of each equal to about
35 one-half the width of the side of the bag.

CC are slots or grooves in the former, which permit the passage of the plications, after they are made, to the upper side of the former.

DD EE are fingers or guides for holding the paper in close contact with the former. The
40 direction the paper is drawn over the former is indicated by the arrows. The office of the fingers or guides DD is to crease or mark the paper upon the line upon which the plications
45 or side folds are made. These are situated preferably a short distance back from the upturned lips BB. As the paper is drawn forward that portion of the tube forming the side
plications or folds passes underneath the lips
50 BB, and passes out from under the frame at the openings CC.

Having thus described the construction and operation of my device, what I claim is—

1. A former, A, having upturned lips or
55 tongues BB, substantially as and for the purposes shown.

2. In combination with a former, A, having upturned lips BB, guides DD EE, substantially as and for the purposes shown.

3. In combination with a former, A, having
60 upturned lips BB, and openings CC, guides DD EE, substantially as and for the purposes shown.

In testimony whereof I have signed my name to this specification in the presence of two sub-
65 scribing witnesses.

DANIEL APPEL.

Witnesses:

JNO. CROWELL, Jr.,
ALBERT E. LYNCH.