

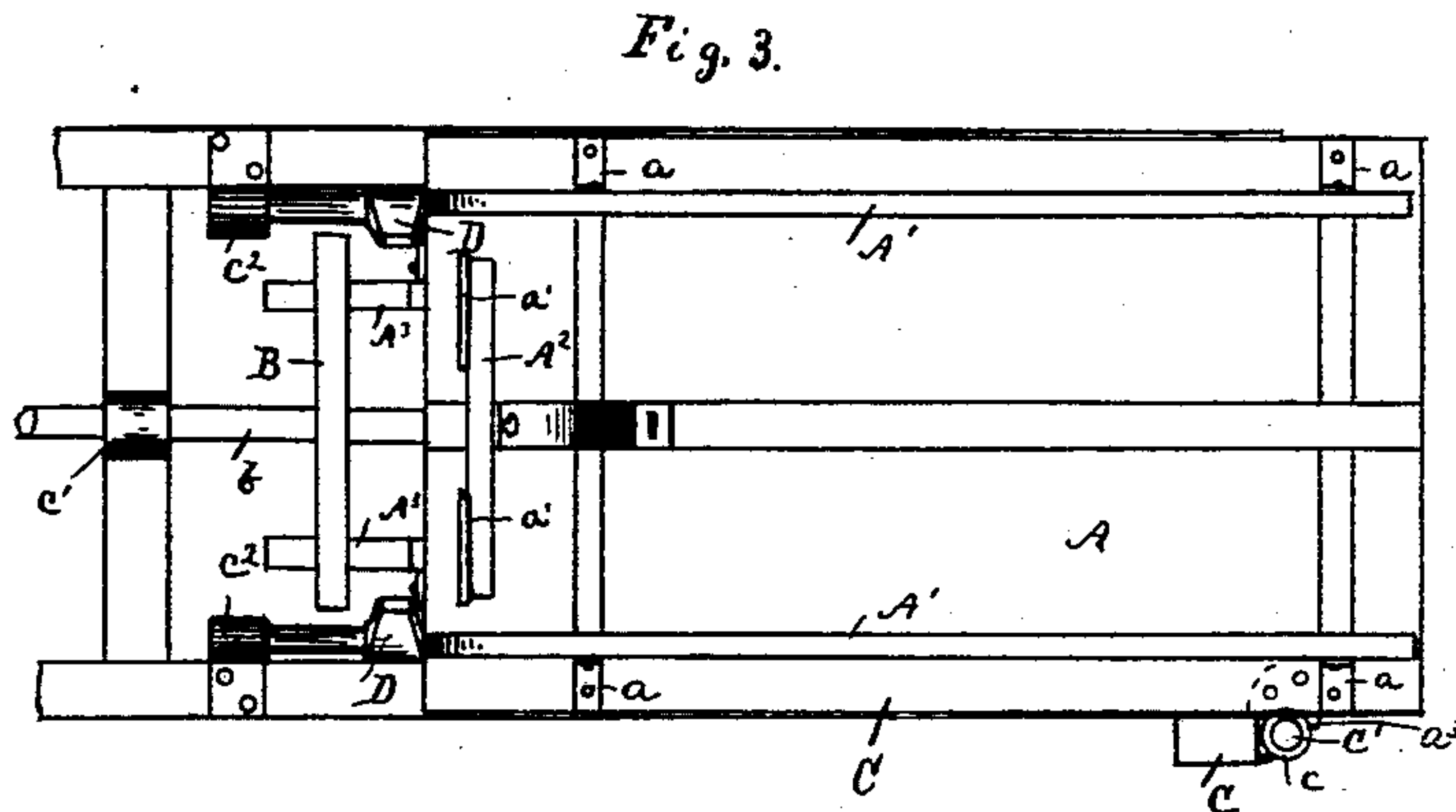
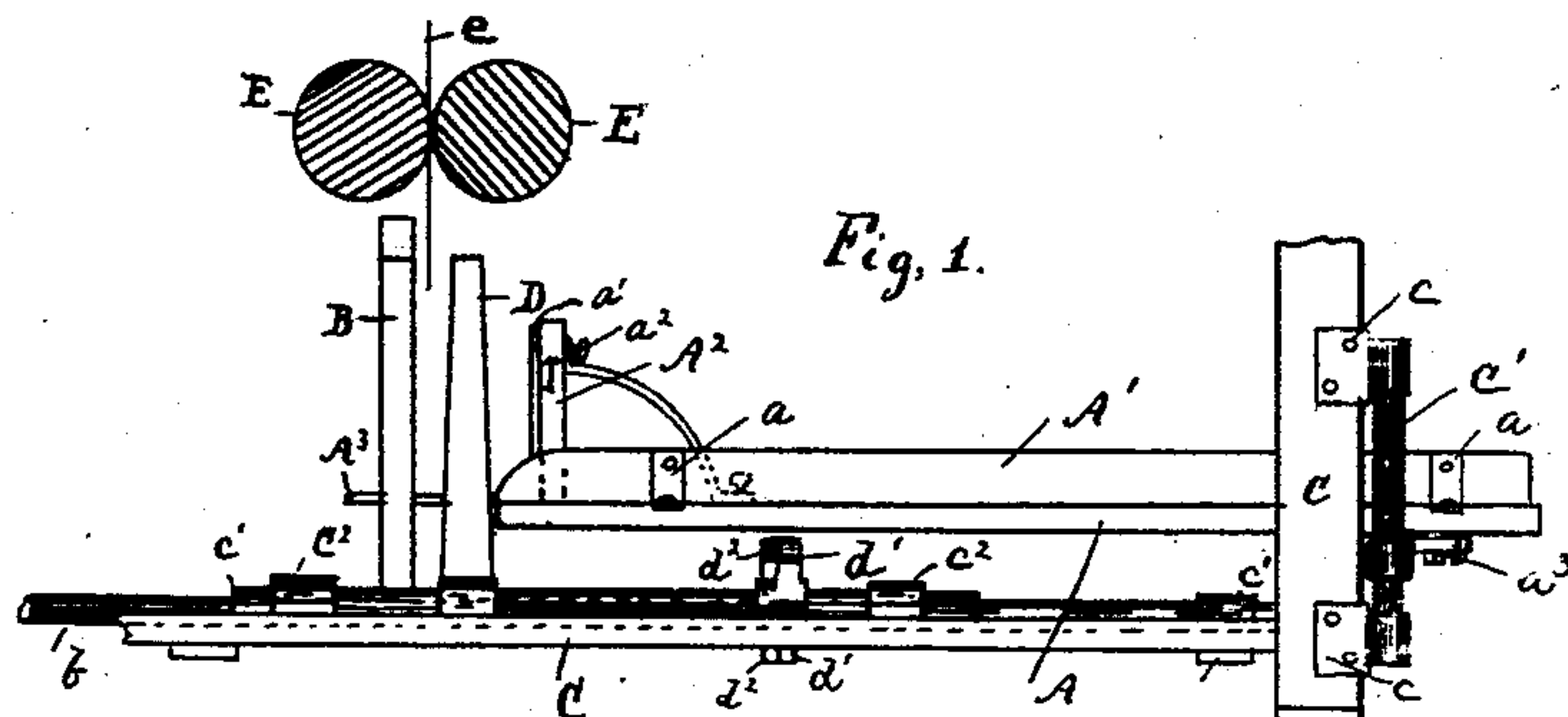
(No Model.)

2 Sheets—Sheet 1.

F. H. WENDT.
PACKER FOR FOLDING MACHINES.

No. 570,580.

Patented Nov. 3, 1896.



WITNESSES:

W. M. Mather, Jr.
J. M. Hallock, Jr.

INVENTOR

Fredrick H. Wendt

BY

Hallock & Lord

ATTORNEYS

(No Model.)

2 Sheets—Sheet 2.

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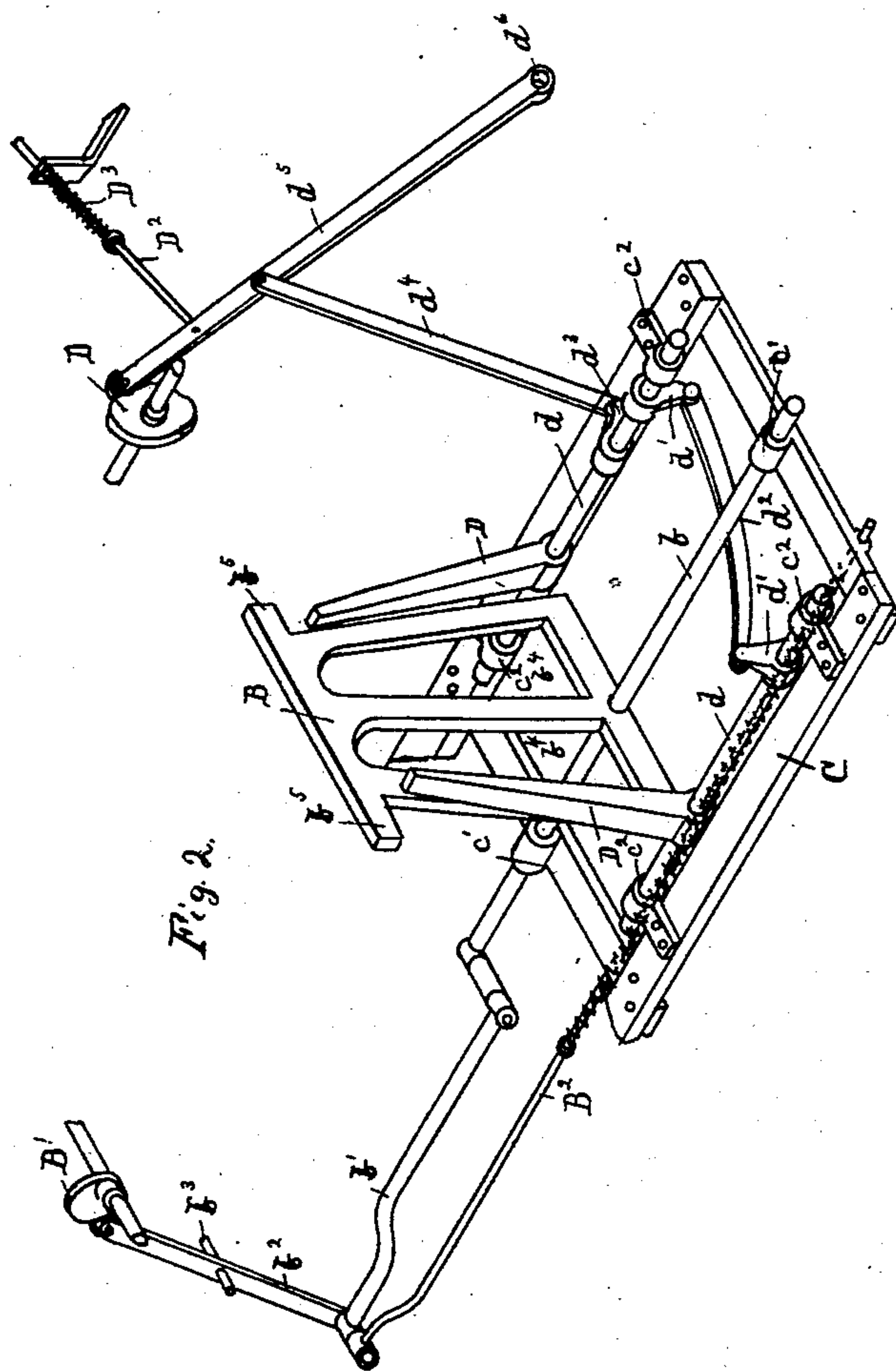


Fig. 2.

WITNESSES:

W. M. Baker, Jr.
J. M. Hallack, Jr.

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UNITED STATES PATENT OFFICE.

FREDRICK H. WENDT, OF ERIE, PENNSYLVANIA, ASSIGNOR TO THE BROWN FOLDING MACHINE COMPANY, OF SAME PLACE.

PACKER FOR FOLDING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 570,580, dated November 3, 1896.

Application filed August 8, 1895. Serial No. 558,595. (No model.)

To all whom it may concern:

Be it known that I, FREDRICK H. WENDT, a citizen of Sweden, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Packers for Use on Folding-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 appertains to make and use the same.

This invention relates to packers for use on folding-machines; and it consists in certain improvements in the construction thereof, as will be hereinafter fully described, and pointed out in the claims.

This invention is illustrated in the accompanying drawings as follows:

Figure 1 is a side elevation of the packer-board with the packer-head and parts of its actuating mechanism, showing relative position of parts. Fig. 2 shows a perspective view of the packer-head and actuating mechanism. Fig. 3 shows a plan view.

A marks the packer-board, A' A' the side guides thereon, and A² the packer-back. A supporting-rod C' is attached to a part of the frame of the folder C by means of brackets c. The packer-board is carried by the supporting-rod C' by means of a bracket a³, which is provided with a screw-operated clamping-band (not shown) of usual construction, by means of which the board may be raised or lowered and set at any position along the rod C'. The side guides A' are provided with setting apparatus a a, by means of which they may be set at any distance apart, according to the size of the page it is desired to pack.

The packer-back is provided with movable faces a' a', carried on slide a² a², set in the packer-back, and these faces can, by means of these slides, also be adjusted in and out to vary the width of the packer-back, so as to accommodate it to different sizes of pages.

The packer-board proper is set with its inner end just in front of the delivery-line e of the rolls E E. Two projections A³ extend from the end of the board on a level therewith under the delivery-line and through the packer-head B. The paper as it comes from the rolls is caught by these projections,

from which it is carried onto the packer-board as the packing progresses.

The packer-head B is carried by the head-rod b. This head-rod b slides in guides c', attached to the frame C, and is connected by a link b' to a rock-lever b², pivoted at b³. The end of the rock-lever is acted upon by a cam B', so as to reciprocate the connecting parts and the head to carry it toward the packer-back. The packer-head is returned to normal by a spring B³, acting through the rod B² on the rock-lever b². The projections A³ pass through the opening b⁴ b⁴ in the head, which construction allows this movement.

Just at the front of the delivery-line e are two stop-fingers D. These fingers are carried by finger-rods d and have normally a position inclining toward each other at the top and are of such length as to allow the passage of the arms b⁵ at the top of the head over them. The head has inclined sides to allow it to pass between the fingers. The finger-rods d are journaled in bearings c² and are provided with rock-arms d' d', one extending above one arm and the other below the other arm. These rock-arms are connected with a link d², so that the rocking of either arm rocks the other arm in an opposite direction, and the fingers D D are opened or closed together. A rock-arm d³ extends from one of the finger-rods d and is connected by means of a link d⁴ with a rock-lever d⁵, pivoted at d⁶. The rock-lever d⁵ is actuated by a spring D³, so as to throw the fingers D D apart. A cam D', acting through the rod D² upon the lever d⁵, returns the fingers D D to normal.

The operation of the device is as follows: The cams B' and D' are actuated by moving parts of the folder mechanism. The cam B' is so timed in its action on the lever b² as to start the packer-head just after each delivery from the rolls. Just before the head reaches the fingers D D the cam D' turns, so as to allow the spring D³ to open the fingers D D, and the paper passes between them. The head in this movement is pressed forward, so that its front face comes at least flush with the front face of the fingers and preferably just sufficiently forward of flush with the fingers to allow the fingers to move freely back of the paper. As soon as the paper passes the

fingers D D the cam D' throws the fingers back of the paper under the arms b^5 , thus retaining the folded sheet until the next fold-section is received in the packer. The cam B' then moves out of contact with the lever b^2 , and the head is returned to normal by the spring B³.

When it is desired to pack smaller-paged sheets, the board is elevated and the side guides and packer-back adjusted. The head and stop-fingers, by reason of the inclination of the sides of the head and the fingers, will operate on the smaller pages without further adjustment.

The board A is preferably set at such height that the paper will just clear the rolls as it is packed. By such an adjustment there is less liability of the paper getting out of its proper position, as is the case with the stationary boards, and consequent long drops on the smaller sizes.

In previous constructions of packers with which I am acquainted the packer-head and the mechanism incident thereto have been attached to or supported by the packer-board, and consequently have been raised and lowered with the board or readjusted when the board has been raised or lowered. In my construction the board is raised or lowered to accommodate different sizes of paper, and by reason of the inclination of the fingers and the fact that the head and its mechanism are not supported by the board, but "independently" supported, no change or adjustment of the head and its operating mechanism is necessary to accommodate them to the new position of the board.

What I claim as new is—

1. In a packer the combination of the packer-board; means of adjusting said board to different heights; side guides on said board; means of adjusting said guides to different widths of folded sections; a packer-head having inclined sides and means which said packer-head passes for stopping a return movement of the paper.

2. In a packer the combination of the packer-board; means of adjusting said board to different heights; side guides on said board;

means of adjusting said guides to different widths of folded sections; a packer-head having inclined sides; and automatically-actuated and normally-inclined stop-fingers which said packer-head passes.

3. In a packer the combination of the packer-board; the packer-head; means of imparting motion to said head; stop-fingers between which said head passes; and means for automatically actuating said fingers independently of the action of the fold-section being packed the movement of said head and fingers being timed for the fingers to open, the head to pass through said fingers while open, the fingers to close after the head has passed through but before its return movement, the head to return through the closed fingers.

4. In a packer the combination of the packer-board; means of adjusting said board to different heights; the packer-head means of actuating said head; normally-inclined stop-fingers automatically actuated toward and from each other between which said head passes and means of supporting and actuating said fingers independently of said packer-board.

5. In a packer the combination of the packer-board; means of adjusting said board to different heights; the packer-head; means of supporting and reciprocating said head independently of said board; stop-fingers inclined toward each other; and means of actuating said stop-fingers out and in as the head passes them for the purposes set forth.

6. In a packer the combination with the board; the packer-head and means for imparting movement to said head; of the stop-fingers D D; rods $d d$; means of actuating the rods $d d$ to rock in opposite directions; and means for rocking said rods d in time relative to the movement of said packer-head.

In testimony whereof I affix my signature in presence of two witnesses.

FREDRICK H. WENDT.

Witnesses:

W. DOWNING,
K. S. SCHAEFER.