

Z. BREED.

Machines for Cutting Paste-Board.

No. 148,546.

Patented March 17, 1874.

Fig. 1.

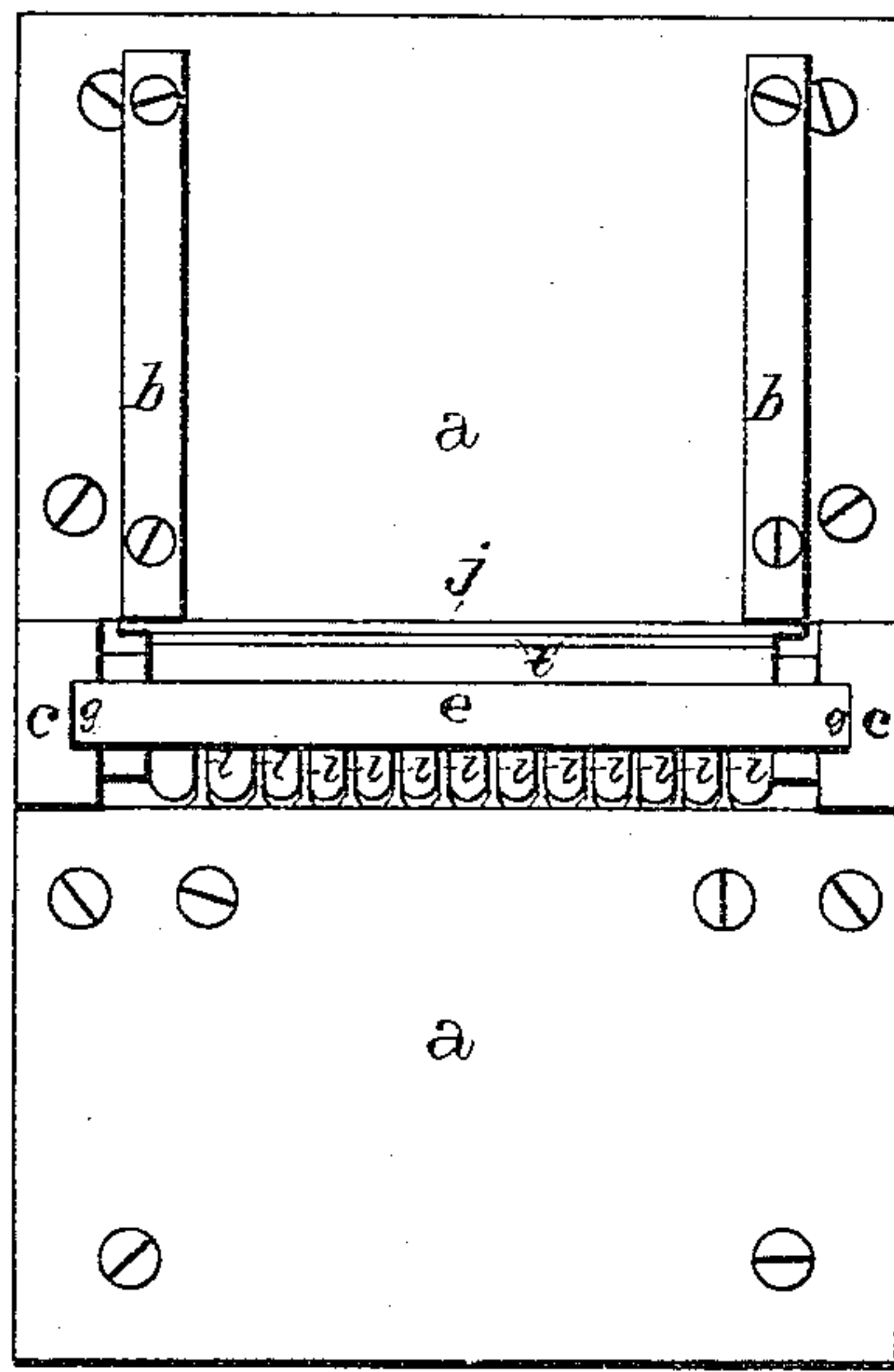


Fig. 2.

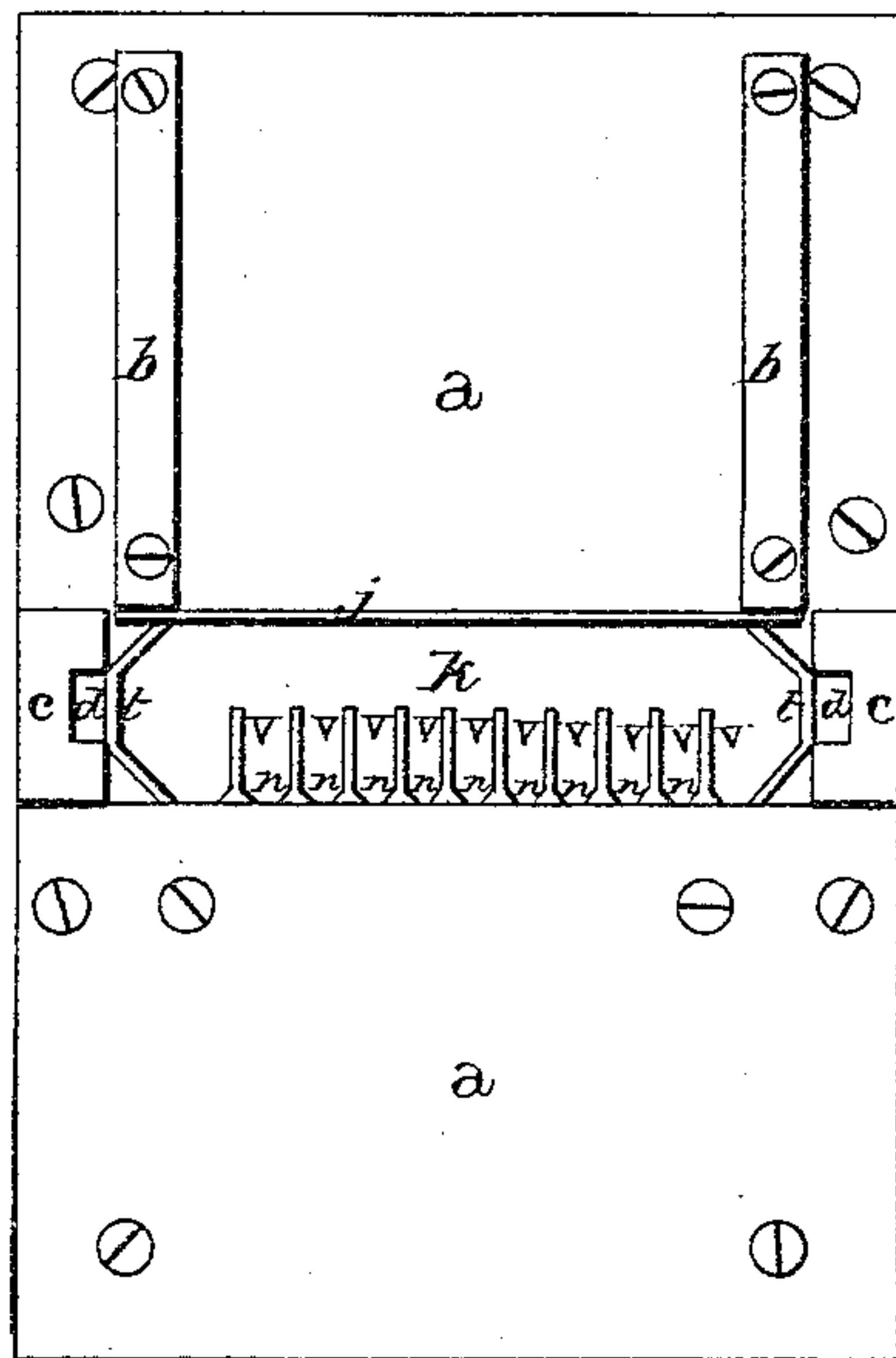
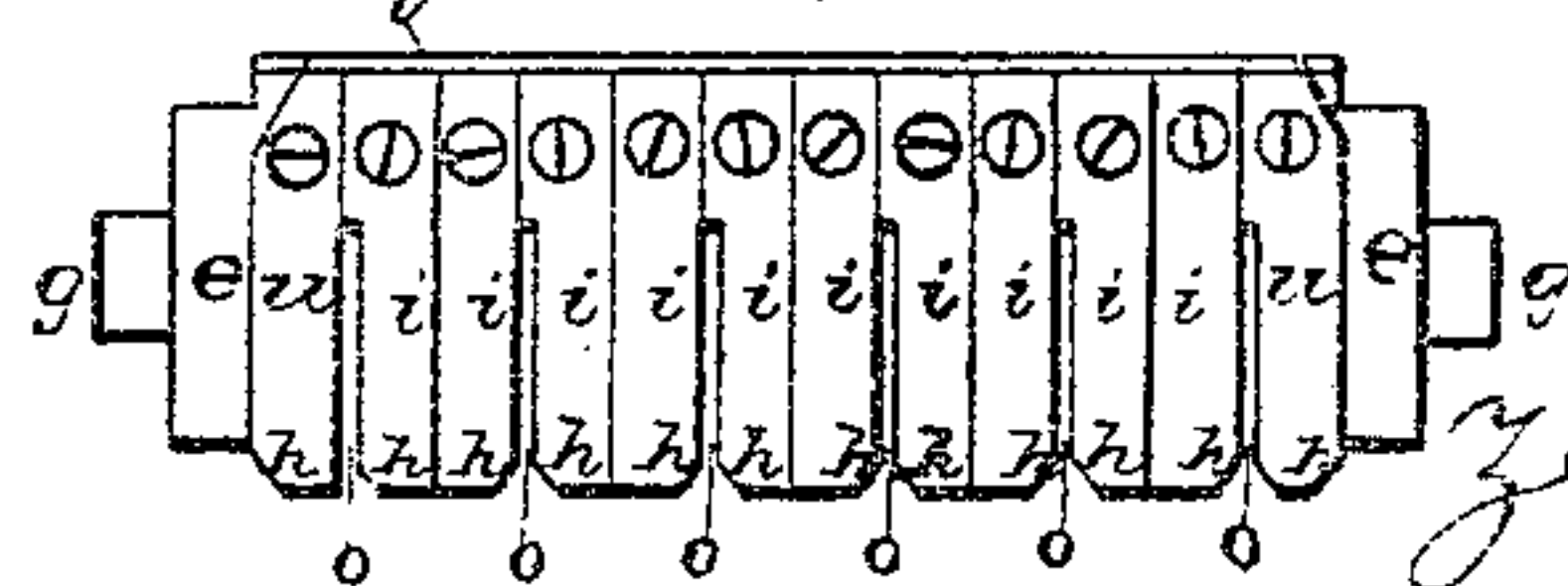


Fig. 3.



WITNESSES.

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IMPROVEMENT IN MACHINES FOR CUTTING PASTEBOARD.

Specification forming part of Letters Patent No. 148,546, dated March 17, 1874; application filed January 5, 1874.

To all whom it may concern:

Be it known that I, ZEPHANIEH BREED, of Weare, county of Hillsborough, State of New Hampshire, have invented certain new and useful Improvements in Machines for Cutting Pasteboard, of which the following is a specification:

The nature of my invention relates to an improvement in machines for stamping out the strips of straw-board used in boxes for the transportation of eggs; and it consists in the arrangement and combination of devices, which will be more fully described hereafter, whereby the strips are slotted and the corners all cut away at a single operation.

The accompanying drawings represent my invention.

A represents an ordinary frame or table of any desired description, having the guides B secured to its top, so as to guide the sheets of straw-board straight to the cutters. Rising from the center of the table, on opposite sides, are the two standards *c*, having grooves *d* cut in their inner sides, in which the die *e*, having the guides *g* to fit in the grooves, works up and down. To the under side of this die are secured a number of flat steel plates, *i*, every alternate one having a thin strip removed from its side, so as to form a slot, *o*, as shown in Fig. 3, and each one having its corner cut away, as shown at *h*. The lower cross-bar of the die-frame, to which these plates are secured, is also slotted, as shown at *l*, Fig. 1, so as to correspond to the slots formed between the edges of the knives. Across the center of the table is formed an elongated opening, *k*, just under the die-frame, of the width of the strip to be cut. Upon the edge of this opening, on

the side next to the guides *b*, is secured a steel plate or knife, *j*, which, together with the one, *i'*, on the die, act as shears to cut the strip off from the main sheet. Projecting outward from the opposite side of this opening are a number of steel plates or knives, *v*, which correspond to the slots formed in between the knives or plates *i*, Fig. 2, and which have their inner ends thickened at *n*, so as to correspond to the cut-away edges or corners of the knives or plates *i*. These plates or knives *v*, acting in conjunction with the ones *i*, slot the strips, and cut away the corners of the slots, so as to facilitate the putting of the strips together as they go into the boxes, the refuse material being forced upward through the slots between the knives *i* and the slots *l* in the die-frame. Across each end of the opening *k*, secured to the standards *c*, is a bent knife, *t*, corresponding in shape to the two end plates *u* on the die, and which clip away the corners of the strip at each end, so as to make it easier to get them into the boxes without catching.

By means of the device above described, the strip can be stamped out with great rapidity, the slot being cut and all the corners cut away at a single operation.

Having thus described my invention, I claim—

The reciprocating die *e*, provided with knives *i* and *i'*, with the stationary knives *v*, *j*, and *t*, substantially in the manner and for the purposes set forth.

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Witnesses:

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