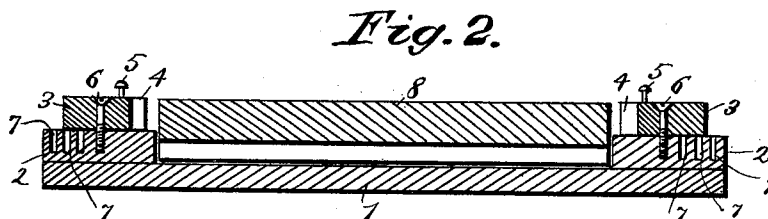
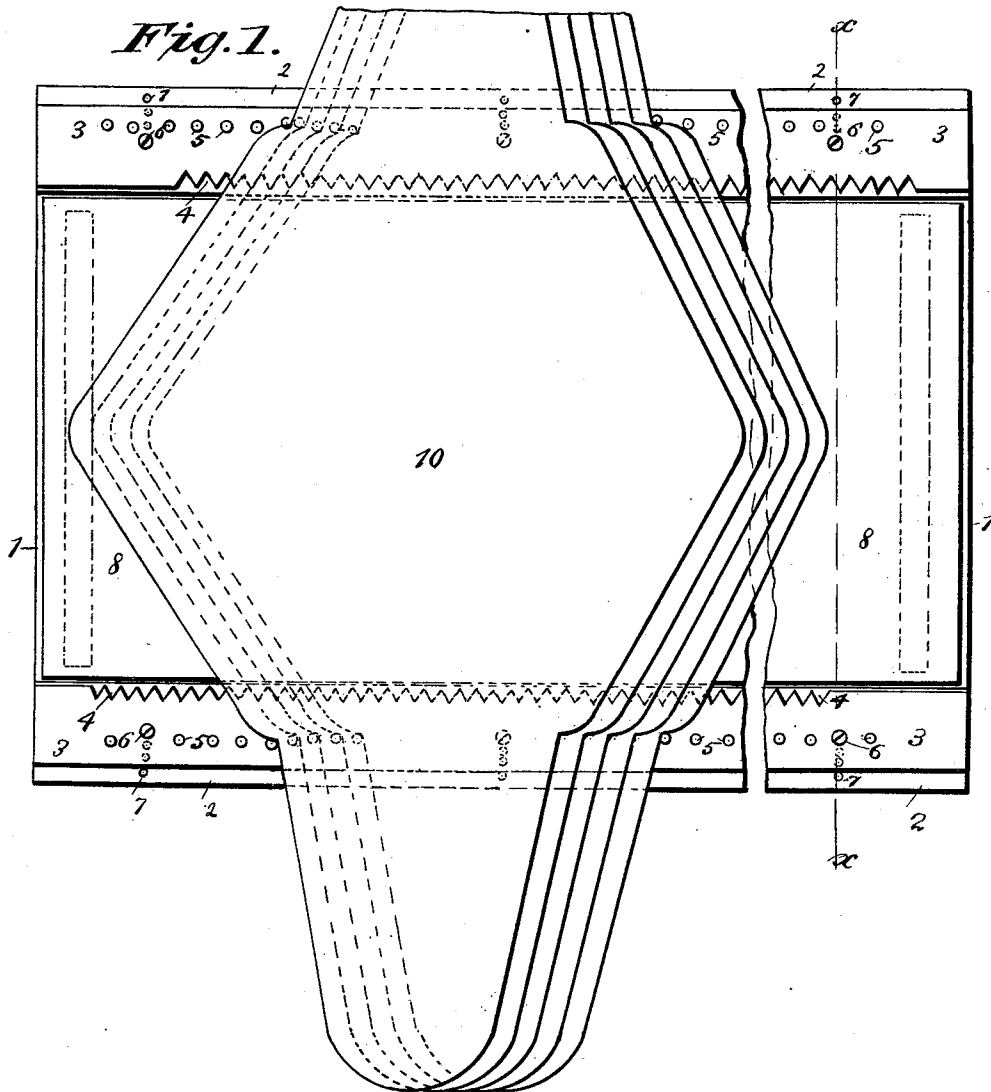


J. C. OLIVER.

FRAME FOR FANNING OUT WRITING PAPER, ENVELOPES, CARDS, &c.

No. 404,104.

Patented May 28, 1889.



WITNESSES:

Phil. C. Dietrich.
C. Sedgwick

INVENTOR.

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Fig. 3.

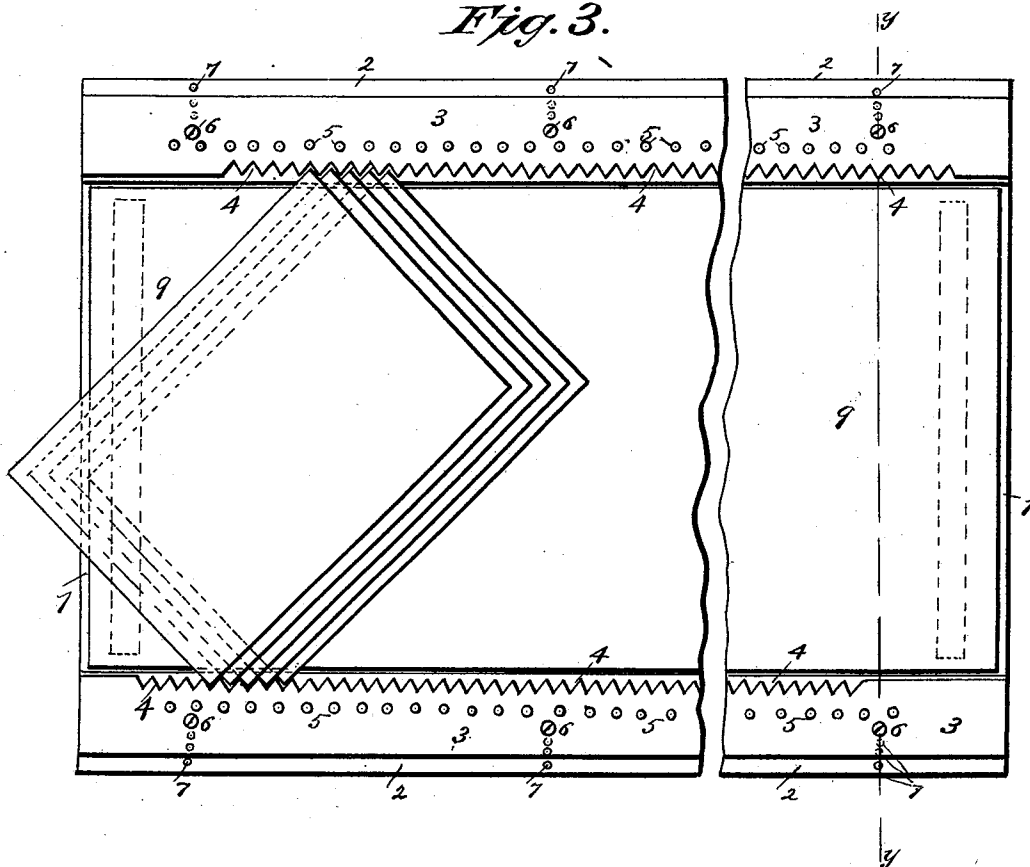
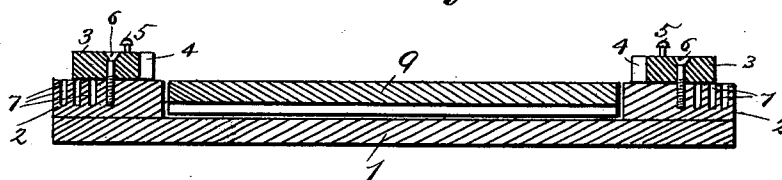


Fig. 4.



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UNITED STATES PATENT OFFICE.

JAMES C. OLIVER, OF BERGEN POINT, NEW JERSEY.

FRAME FOR FANNING OUT WRITING-PAPER, ENVELOPES, CARDS, &c.

SPECIFICATION forming part of Letters Patent No. 404,104, dated May 28, 1889.

Application filed March 9, 1888. Serial No. 266,719. (No model.)

To all whom it may concern:

Be it known that I, JAMES C. OLIVER, of Bergen Point, in the county of Hudson and State of New Jersey, have invented a new and
5 Improved Frame for Fanning Out Writing-Paper, Envelopes, Cards, &c., of which the following is a full, clear, and exact description.

This invention relates to what is known as "fanning out" writing-paper, envelopes, cards,
10 &c., and has for its object to provide a device which will obviate the necessity of skilled labor, and by means of which the work will be done with accuracy and in a superior manner.

The invention consists in a frame for this
15 purpose constructed and arranged as herein-after described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate
20 corresponding parts in all the views.

Figure 1 is a plan view of the invention with "fanned" envelope-blanks in position. Fig. 2 is a horizontal section thereof on line
25 *x x*, Fig. 1. Fig. 3 is a plan view of the invention with envelopes in fanned position, and Fig. 4 is a horizontal section on the line
y y, Fig. 3.

In putting black or colored borders on writing-paper, envelopes, cards, &c., it is customary to take a pile of sheets of letter-paper, envelope-blanks, or cards, and by means of a tool in the shape of a stick, and called a "folder," to push out the edges of the sheets,
30 blanks, or cards until they overlap sufficiently to leave a series of border-spaces of the size required to be blacked or colored. This work is done rapidly by hand, but requires skilled labor, and is imperfect, as the size of the border-spaces laid out depend upon the eye of
35 the operator, and are not accurate or uniform. To overcome these objections, and to dispense with skilled labor, I have provided the following device.

I indicate a bottom or base board of suitable width and length, having side strips, 2, secured thereto. Upon the side strips, 2, are fastened strips 3, having on their inner edges a series of equally-spaced notches, 4, and on their top a line of equally-spaced short pins
40 or pegs, 5, extending slightly above the strips 3, so that a set of fanned envelope-blanks may rest on top of the pins with their edges on

one side engaging the pins, as shown in Fig. 1. The strips 3 are adjustable laterally on the strips 2 by the fastening-screws 6 and a series of screw-holes, 7. The space between
55 the strips 2 3 is filled with a removable board, 8, the upper surface of which is even with the surface of the strips 3, or with a board, 9, which is interchangeable with board 8, and
60 which has its upper surface even with the top of strips 2.

The use of the device will now be described.

If it is desired to fan out envelopes, the base-board 1 being secured on a table or other
65 suitable support, the board 8 is placed in position between strips 2 3 and the strips 3 adjusted according to the size of envelopes to be fanned. A number of envelope-blanks, 10, are then arranged on the frame, as shown in
70 Fig. 1, the edges on one side of the blanks engaging the equally-spaced pins 5, as shown in dotted lines, with the blanks lying on the pins, thereby locating the blanks in fanned position with equal spaces for the borders. The
75 board 8, which in practice is several feet in length, being covered from end to end with the blanks in fanned position, the spaces are brushed for black or colored border. The blanks are then lifted out from the pins when
80 the borders are dry and arranged with their opposite edges held in fanned position by the pins, and the spaces are brushed and dried, as in the case with the other edges.

The two edges of the blanks having been
85 bordered, the envelopes are made up and located in fanned position as follows: A board, 9, is placed in the frame and the envelopes laid thereon, overlapping one another diagonally, with two corners located in notches 4,
90 as shown in Fig. 3. The board 9, being covered from end to end with the envelopes, having two of their front edges located in fanned position, is lifted out of the frame and removed for bordering. Another board with
95 another set of made-up envelopes is placed in the frame and their two front edges located in fanned position. The remaining front edges of the former set are located in fanned position and removed and bordered, and the bordering of the envelopes is then complete.
100 Cards are located in fanned position similarly to the made-up envelopes, and the removal and bordering carried on in the same manner

as with the made-up envelopes. The strips 3 may be adjusted laterally for cards of different size.

By means of this device a great saving in time, labor, and expense is effected and the work done easily and accurately. Furthermore, the folder not being used, the edges will not be rubbed.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In a frame for fanning envelopes, the combination, with the base-board 1, longitudinal side strips, 2, secured thereto, and the notched strips 3, laterally adjustable upon the upper face of the side strips, 2, of the removable board 9, arranged between the side strips, 2, said board forming the support for the body

of the envelopes being formed, substantially as and for the purpose specified.

2. The hereinbefore-described improvement in frames for fanning envelopes, consisting of a base, 1, provided with longitudinal side strips, 2, strips 3, laterally adjustable on the side strips, 2, said strips 3 provided with equally-spaced notches on their inner edges and equally-spaced pins on their upper faces, and removable boards adapted to be placed between the side strips, 2, said boards forming supports for the body of the envelopes being operated on, substantially as and for the purpose described.

JAMES C. OLIVER.

Witnesses:

S. HAGUE,

E. M. OLIVER.