

(No Model.)

L. H. ALLEN.

PAPER MOLD FOR CASTING STEREOTYPE PLATES.

No. 326,376.

Patented Sept. 15, 1885.

Fig: 1.

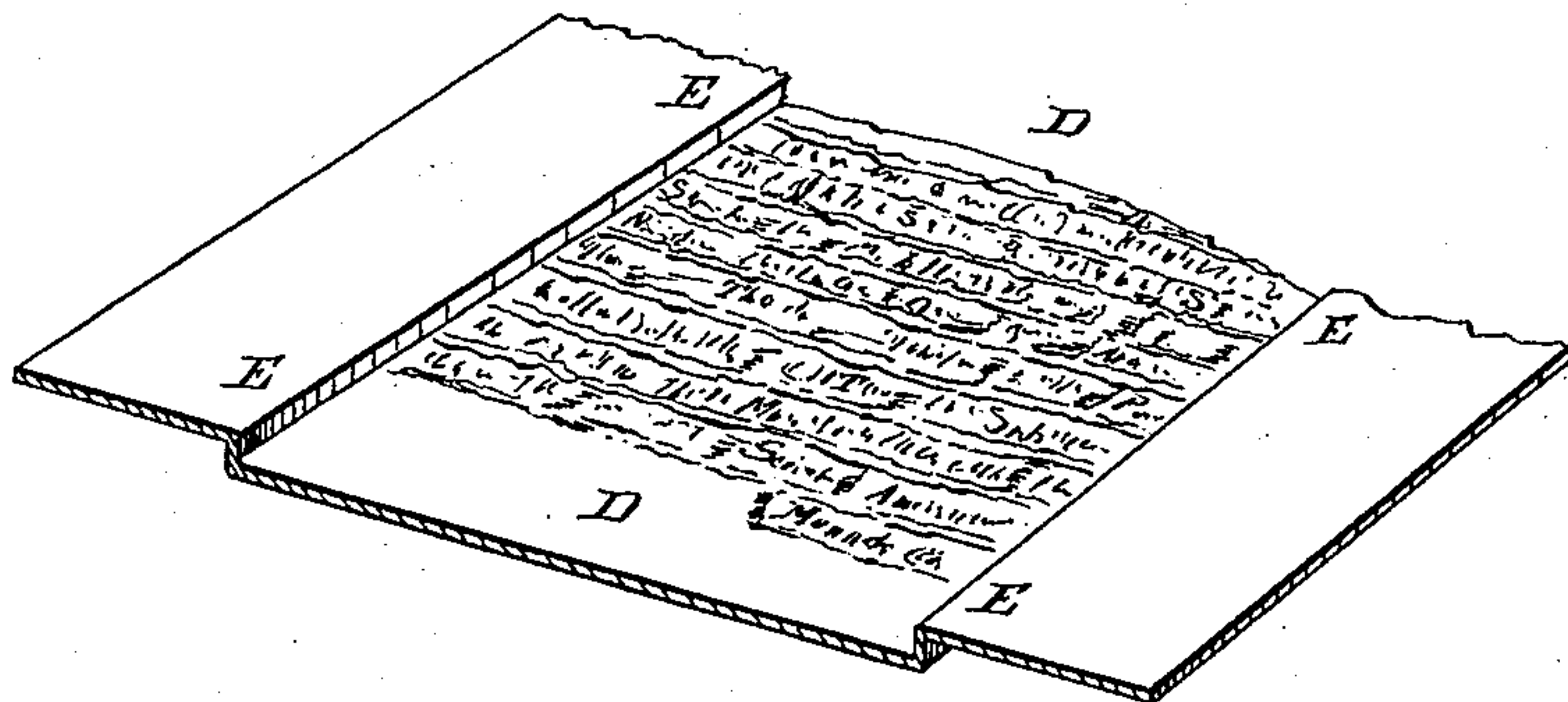
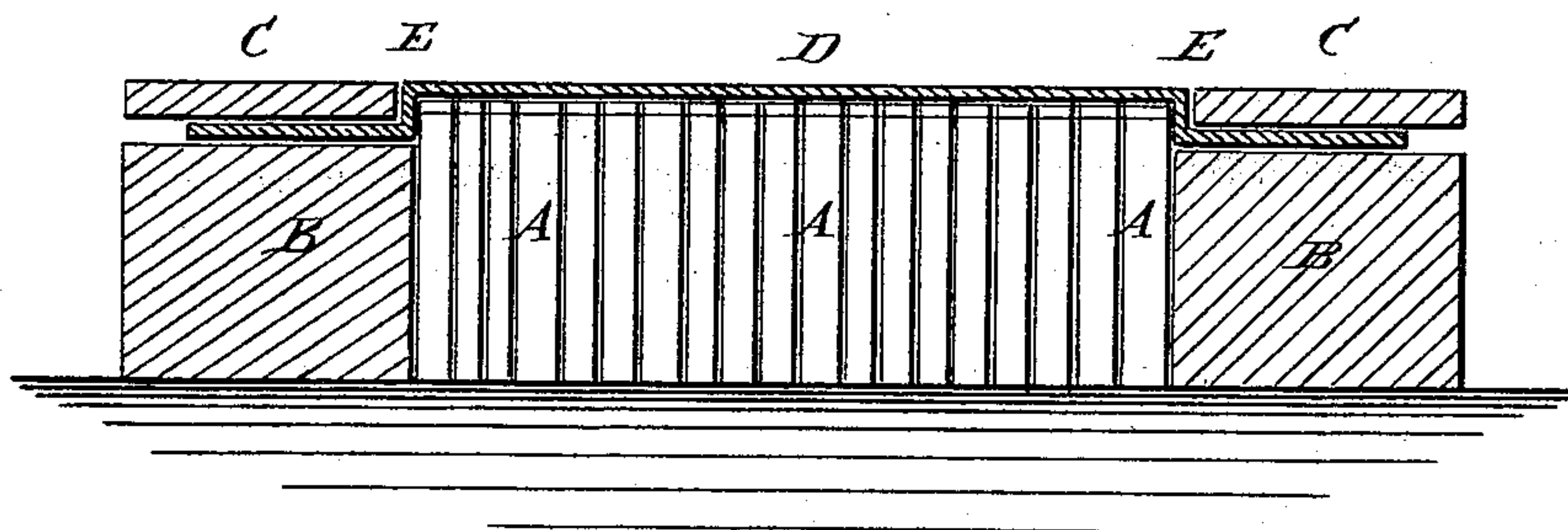


Fig: 2.



WITNESSES:

Chas. N. Viora
C. Sedgwick

INVENTOR:

L. H. Allen

BY

Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

LOUIS H. ALLEN, OF NEW YORK, N. Y.

PAPER MOLD FOR CASTING STEREOTYPE-PLATES.

SPECIFICATION forming part of Letters Patent No. 326,376, dated September 15, 1885.

Application filed June 23, 1884. (No model.)

To all whom it may concern:

Be it known that I, LOUIS H. ALLEN, of the city, county, and State of New York, have invented a new and useful Improvement in
5 Paper Molds for Casting Stereotype-Plates, of which the following is a full, clear, and exact description.

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

Figure 1 is a perspective view of a part of one of my improved molds; Fig. 2 is a sectional end elevation of the mold, shown in con-
15 nection with the column of type and the bars used in making the said mold.

The object of this invention is to provide molds which will produce casts of exactly the same width as the columns of type upon which
20 the molds were formed, and with the sides of said casts finished.

The invention consists in a paper mold for casting stereotype-plates, made with square
25 shoulders to adapt it to produce stereotype-plates with finished sides.

The mold is formed by using side bars of a less thickness than the height of the type, to receive the side parts of the matrix-paper, and placing thin side bars over the said side parts
30 of the matrix-paper, whereby the molds are formed with square shoulders, as will be hereinafter fully described.

I will describe my improved mold in connection with the method of making it.

35 A represents a column of type which is locked in a chase, with a square iron bar, B, on each side, which bars are a little lower than the shoulders of the type A, as shown in Fig. 2. Matrix-paper in the ordinary man-
40 ner is then laid over the face of the type A and the inner parts or the whole of the upper sides of the bars B, and beaten very thoroughly with a beating-brush. The paper over the face

of the type is flattened by means of a printer's planer, so as to produce a deep and clear
45 impression of the type in the matrix. Another layer of the matrix-paper, called the "backing," is laid on the first layer and lightly beaten. Bars C, or a frame
50 of brass or other suitable metal, are then laid on the matrix over the faces of the iron bars B, with their inner edges at a little distance from the sides of the column of type A, as shown in Fig. 2. The matrix
55 and the bars C are then covered with woolen or felt blankets, to absorb the moisture expressed from the paper, and the whole apparatus is subjected to screw-pressure on the steam-table and is there baked for from seven
60 to ten minutes, after which the apparatus is withdrawn, the bars C are removed, and the mold D, complete and ready for use, is taken off.

The mold thus formed has square shoulders E along its sides of such a height as to ex-
65 tend a little beyond the shoulders where the letters join the bodies of the type, so that when the molds are used for casting stereotype-plates the metal that forms the letters and upper part of the bodies of plates will flow against the said
70 paper shoulders, and thus will not be chilled, so that a perfect cast with finished sides will be made, and no sawing or side planing will be necessary.

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

A paper mold, D, for casting stereotype-plates, made substantially as herein shown and described, with square shoulders E, to
80 adapt it to produce stereotype-plates with finished sides, as set forth.

LOUIS H. ALLEN.

Witnesses:

JAMES T. GRAHAM,
C. SEDGWICK.