

(No Model.)

G. E. LINCOLN.
LINOTYPE AND MATRIX FOR MAKING SAME.

No. 604,404.

Patented May 24, 1898.

Fig. 1.

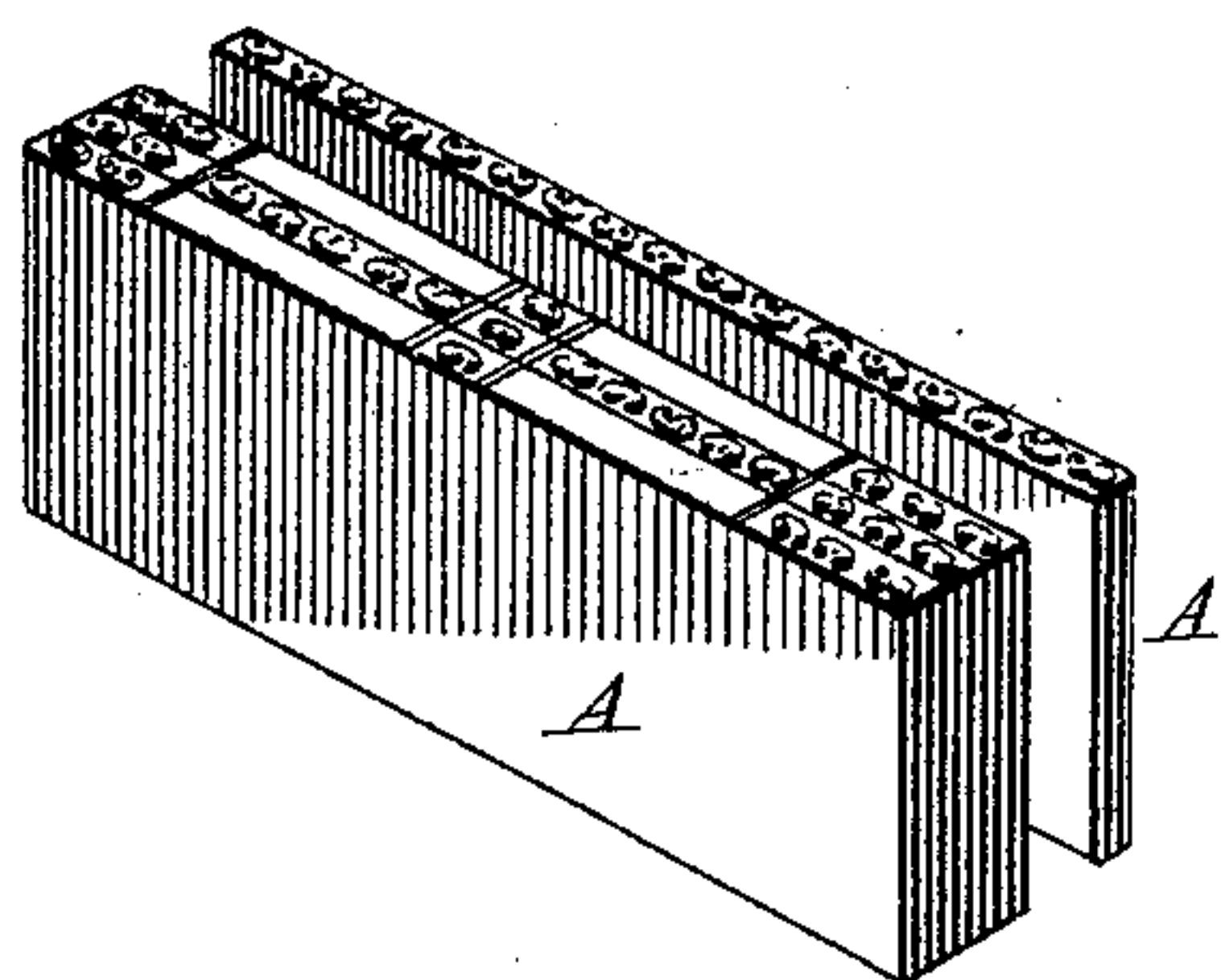


Fig. 2.

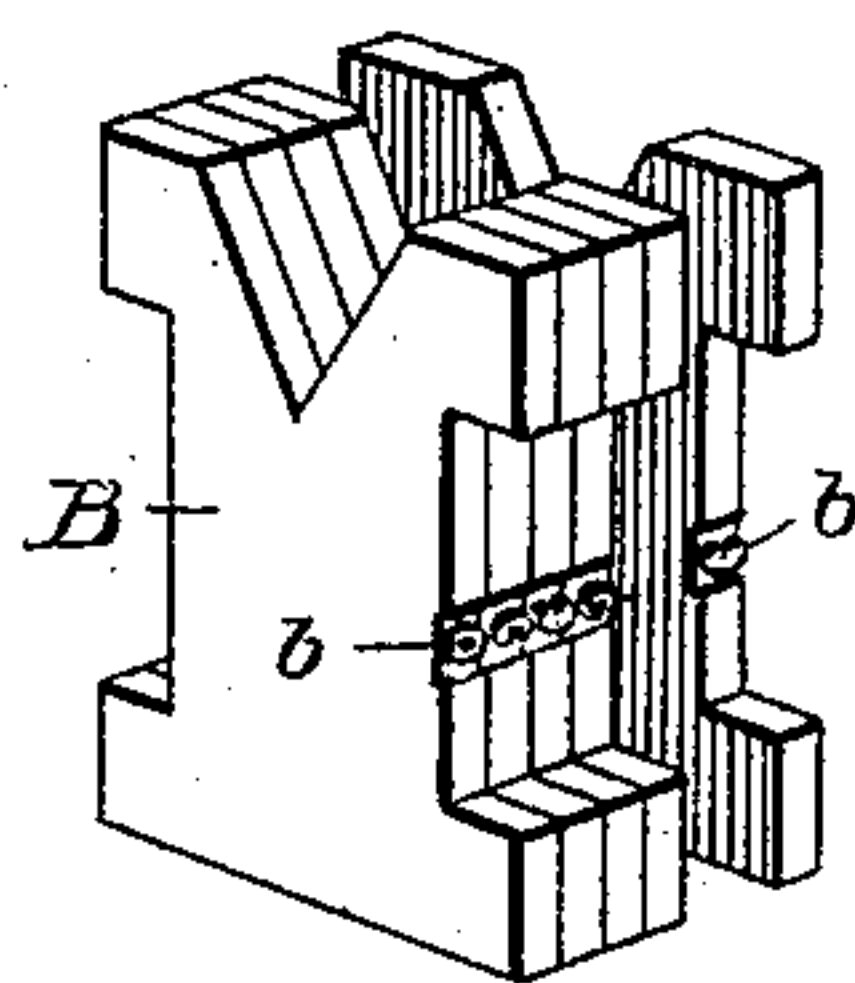


Fig. 3.

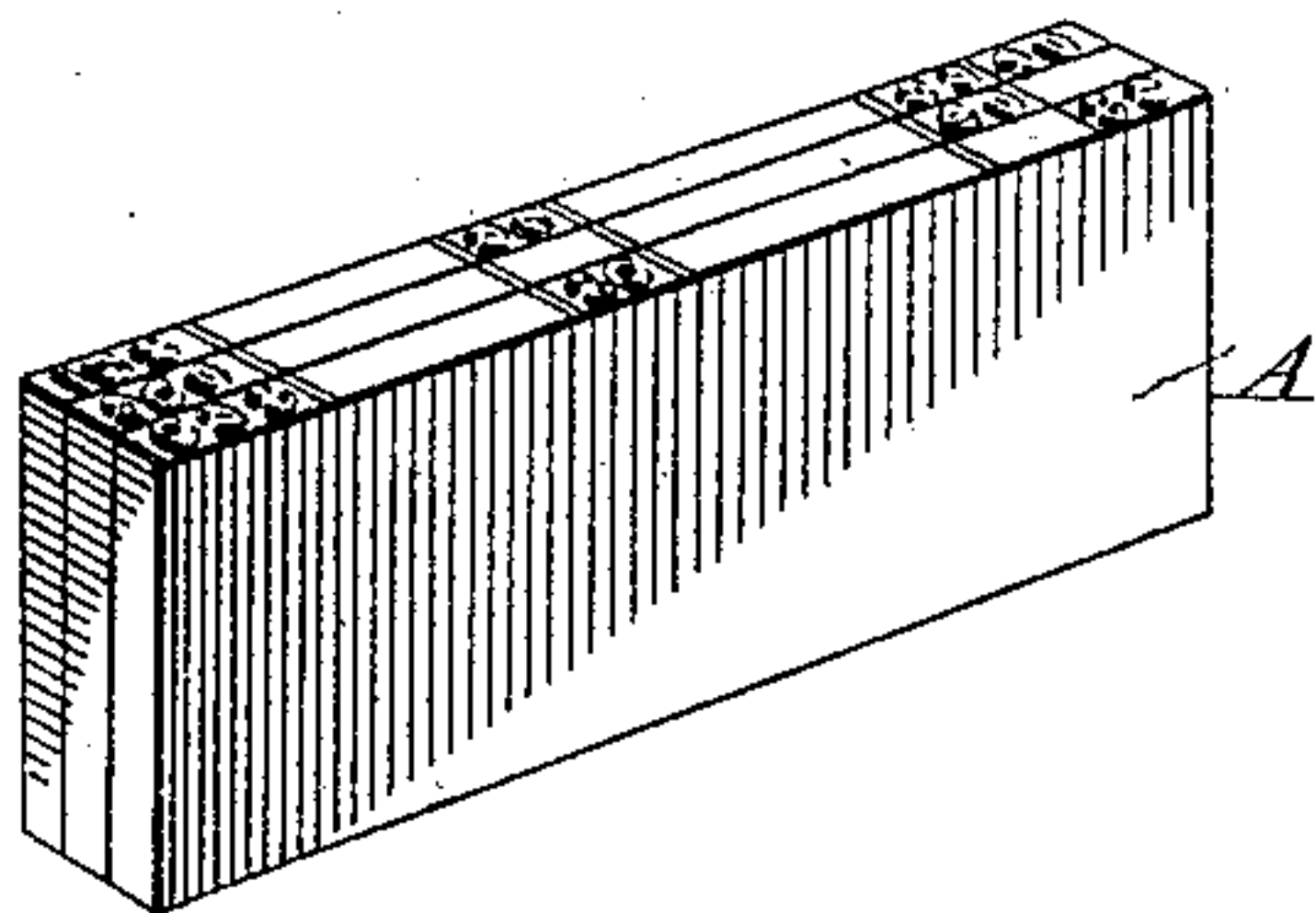
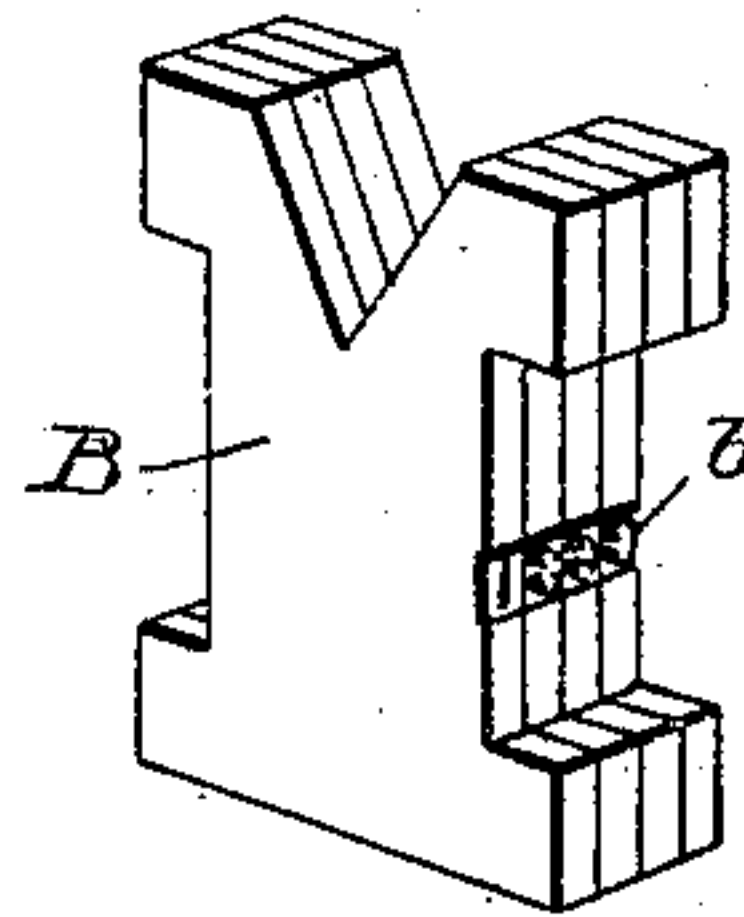


Fig. 4.



WITNESSES:

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GEORGE ECKERT LINCOLN, OF BROOKLYN, NEW YORK, ASSIGNOR TO THE
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LINOTYPE AND MATRIX FOR MAKING SAME.

SPECIFICATION forming part of Letters Patent No. 604,404, dated May 24, 1898.

Application filed July 26, 1897. Serial No. 645,926. (No model.)

To all whom it may concern:

Be it known that I, GEORGE ECKERT LINCOLN, of Brooklyn, county of Kings, and State of New York, have invented a new and useful Improvement in Linotypes and Matrices for Making the Same, of which the following is a specification.

In Mergenthaler and other linotype-machines as heretofore constructed for producing tables of figures the figure characters were arranged vertically or longitudinally in the edges of the matrices, so that when a series of matrices are arranged or assembled side by side in the line they would produce on the slug or linotype figures which read lengthwise of the slug. When the slugs are arranged horizontally one below another, each vertical column of figures will be composed of figures on different slugs. In practice it is found that there are many special cases in which this is objectionable, since the change of the figures in any one column may necessitate a recasting of all the slugs in the form. It is often desirable to change the figures in one column of a table without changing those in the adjacent columns—for example, in stock reports—and my invention has in view the production of linotypes which will permit such changes.

To this end my invention consists, first, in a linotype bearing figures or characters which read transversely of the edge of the slug, so that the slugs may be used vertically in the "form," the figures on the same slug falling one under another. In order to produce slugs of this character, I employ matrices, constituting the second part of my invention, which have their characters arranged to read transversely instead of longitudinally, as usual.

Referring to the accompanying drawings, Figure 1 is a perspective view showing slugs in accordance with my invention; Fig. 2, a perspective view of matrices such as I provide for producing the improved slugs. Fig. 3 illustrates the ordinary linotype-slugs such as have been heretofore employed for tabular work; Fig. 4, a perspective view of a matrix such as has heretofore been employed for the production of such slugs.

Referring to Fig. 1, A A represent linotypes

or slugs each consisting, preferably, of a single body of type-metal or other suitable material bearing on its upper edge a series of numerals or characters arranged to read transversely of the edge, or, in other words, so that each slug bears a column of figures or characters one below another. In making up a form of these slugs they are arranged vertically side by side, so that the figures on one slug will be read horizontally in connection with those on the next. The distinction between these slugs and those of ordinary form will be readily understood on reference to Fig. 3.

In order to produce the improved slugs, I provide the matrices B, which are in all respects like those of the ordinary Mergenthaler machine except that the figures or matrices proper, *b*, are arranged to read longitudinally of the matrix instead of transversely, as in the old form of matrix shown in Fig. 4.

It is to be understood that the improved matrices as herein described may be employed in the ordinary linotype-machine and the improved slugs produced therefrom without any change whatever in the construction and operation of the machine. It is also to be understood that my improvement is applicable to matrices and dies of all linotype-machines and matrix-machines, including the Scudder, monoline, and the Rogers typograph.

The slugs and linotypes, as referred to herein, are type-high bodies of type-metal or similar material intended to be set up side by side in connection with or as substitutes for ordinary printing-type, the slugs being made as required and with special reference to the forms in which they are to be used, to be discarded and remelted after printing the particular issue for which they are designed, and the claims herein are to be understood as applying to slugs of this character.

Having thus described my invention, what I claim is—

1. An improved linotype or slug having figures or characters arranged to read transversely of its edge.

2. A form composed of a series of parallel slugs or linotypes each having a column of figures one under another, whereby figures

of one slug are adapted to be read in connection with those on the next.

3. A matrix or die having a figure character arranged to be read lengthwise of the
5 matrix.

4. A series of matrices having their characters located in line with each other, and arranged to be read lengthwise of the matrices whereby they are adapted to form a series of

characters transversely of the edge of a lino- 10
type.

In testimony whereof I hereunto set my hand this 19th day of July, 1897, in the presence of two attesting witnesses.

GEORGE ECKERT LINCOLN.

Witnesses:

F. A. DAYTON,

WILLIAM H. PECK.