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T. MINER ^{and} J. G. MOODY.

TYPE.

No. 122,531.

Patented Jan. 9, 1872.

Fig. 1.

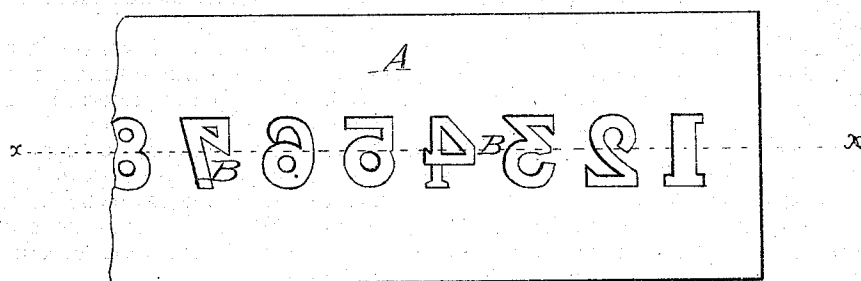
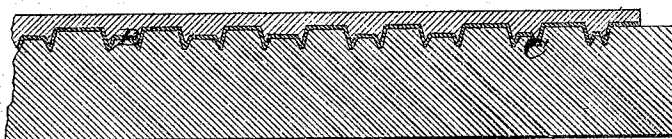


Fig. 2.



Witnesses.

Villette Anderson.
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UNITED STATES PATENT OFFICE.

THEODORE MINER AND JOSEPH G. MOODY, OF NEW YORK, N. Y.

IMPROVEMENT IN MANUFACTURING POINTED TYPE.

Specification forming part of Letters Patent No. 122,531, dated January 9, 1872.

To all whom it may concern:

Be it known that we, THEODORE MINER and JOSEPH G. MOODY, of New York, in the county of New York and State of New York, have invented a new and valuable Improvement in Type; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a top view of an impression made by our type. Fig. 2 is a view through the line *x x*.

This invention has relation to the manufacture of type or dies having fine puncturing-points for perforating paper and other articles, as in canceling or marking checks, notes, &c.; and it consists in the application to the production of such pointed type or dies of the electro-chemical process of depositing metals in connection with a suitable matrix, as herein-after described.

Referring to the drawing, the letter A represents a matrix or mold formed on the original pattern of the letter or figure to be copied. B represents the layer or electro-metallic deposit as it lies in the mold. This deposit follows closely all the fine depressions of the matrix, forming the delicate perforating projections with a clean and perfect finish if the mold has been properly formed. In the same

manner the grooved beard of the type or die may be formed where such is required. This film or plate bearing these fine perforating-points may be backed in any convenient manner suited to the object in view; or the mold may be left in the solution long enough to acquire a deposit of sufficient thickness to answer for the body of the type.

For the purposes of this invention the metal which is used to form the solution should be hard. Nickel or copper is preferred. The deposit should take place *in vacuo*.

I am well aware that it is not new to make use of the electrotyping process to face common type, and that pointed type have been made for perforating purposes by filing out their faces; hence I do not claim, broadly, such invention; but

What I claim as my invention, and desire to secure by Letters Patent, is—

A type or die having a perforating-face consisting of a number of fine points or projections formed by electro-metallic deposits in a matrix, substantially as and for the purpose specified.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

THEODORE MINER.

JOSEPH G. MOODY.

Witnesses:

F. A. BASSLER,
THS. I. COOKE.

(164)