

No. 836,710.

PATENTED NOV. 27, 1906.

J. R. ROGERS.
LINE PRINTING SLUG.
APPLICATION FILED OCT. 8, 1906.

Fig. 1.

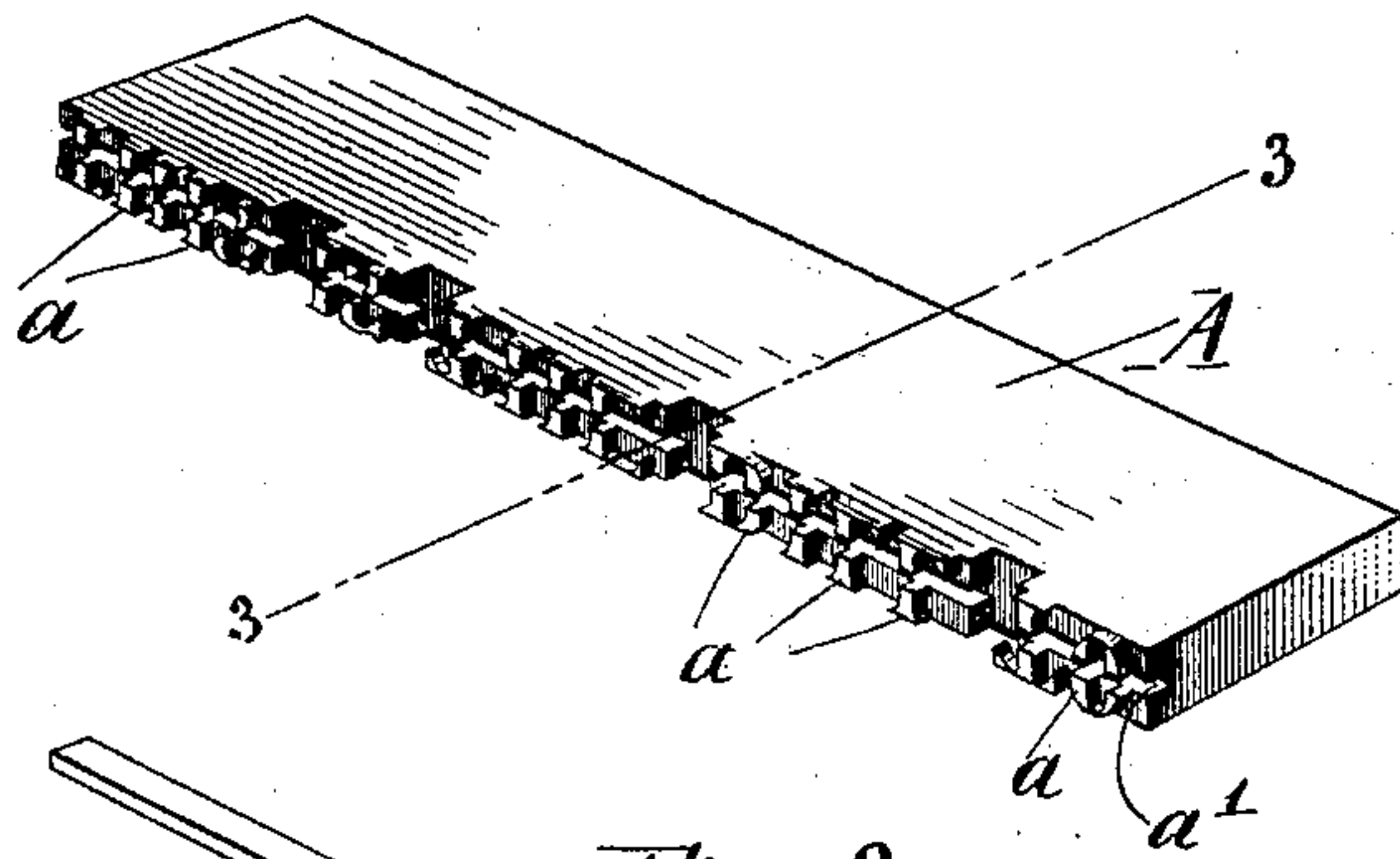


Fig. 2.

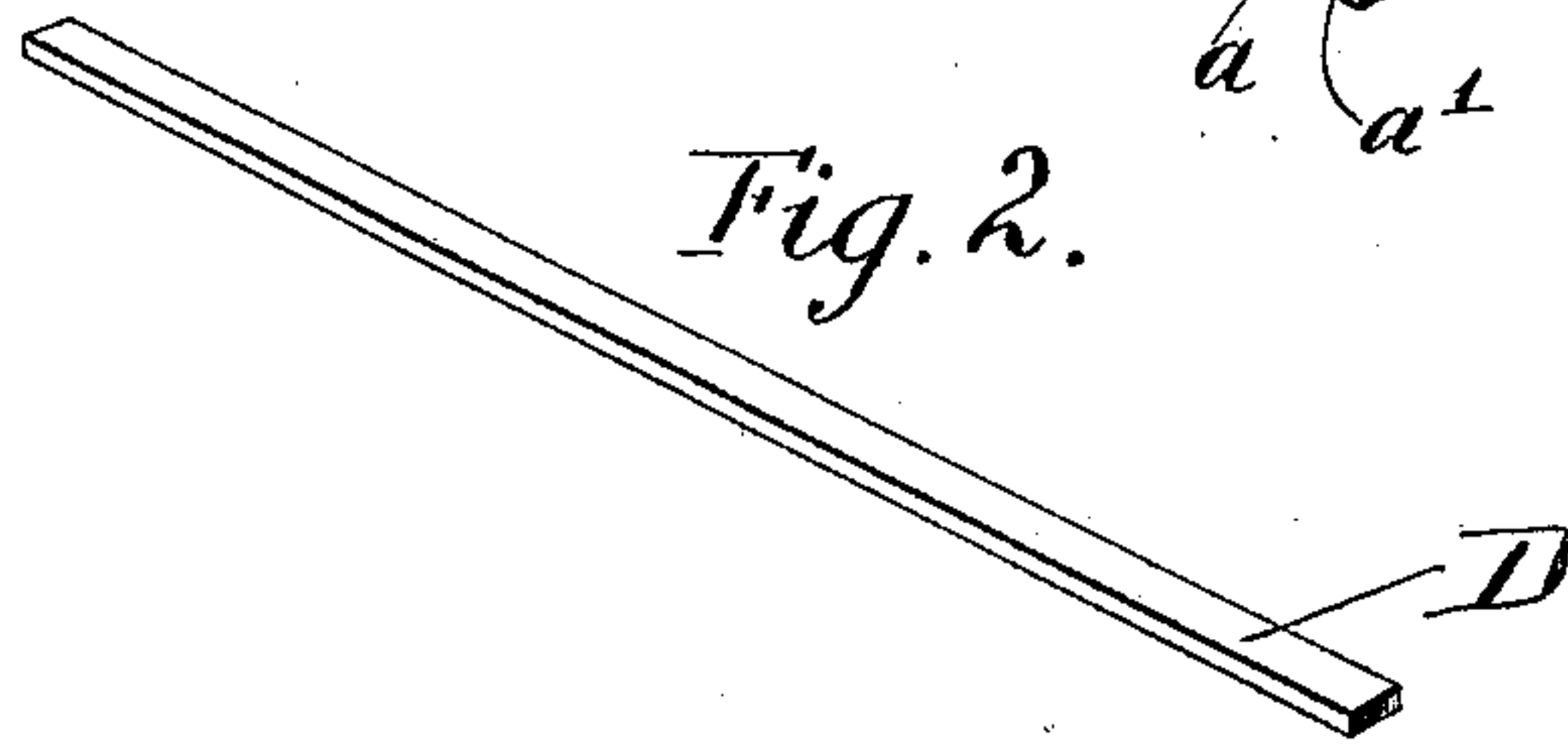


Fig. 3.

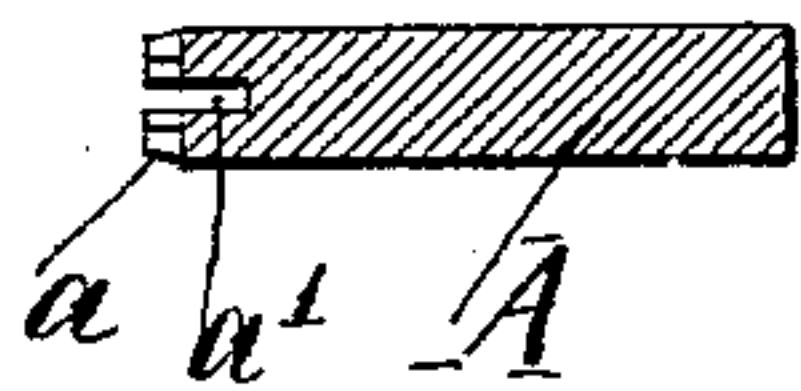
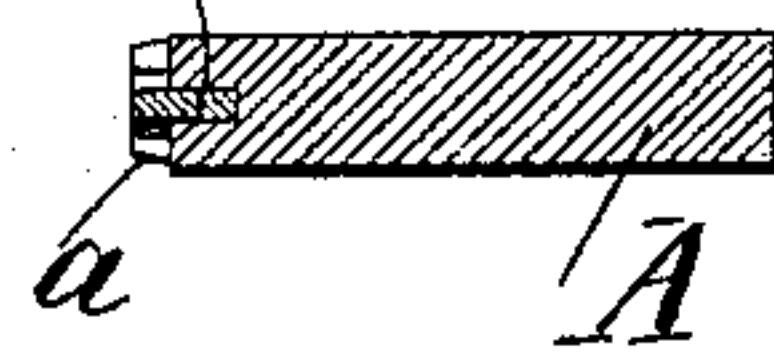


Fig. 4.



Witnesses
D. J. Palma
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By *P. T. Dodge* his Attorney

UNITED STATES PATENT OFFICE.

JOHN RAPHAEL ROGERS, OF BROOKLYN, NEW YORK, ASSIGNOR TO
MERGENTHALER LINOTYPE COMPANY, A CORPORATION OF NEW
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LINE-PRINTING SLUG.

No. 836,710.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed October 8, 1906. Serial No. 337,934.

To all whom it may concern:

Be it known that I, JOHN RAPHAEL ROGERS, of the borough of Brooklyn, county of Kings, and State of New York, have invented
5 a new and useful Improvement in Line-Printing Slugs, of which the following is a specification.

My invention has reference to line-printing bars or slugs bearing on one edge the
10 characters to print a line.

The object of my invention is to adapt these slugs to receive longitudinal rules or equivalent members for printing a cancellation-line across the type characters.

15 To this end it consists in a slug having a series of type characters and having also a longitudinal groove extending through the characters and adapted to receive the shallow rule or equivalent printing device.

20 It consists, further, in the combination of such slug with a rule or printing member seated in the groove therein.

In the drawings, Figure 1 is a perspective view of my improved slug. Fig. 2 is a perspective view of a rule adapted for insertion
25 therein. Fig. 3 is a cross-section of the slug as it appears previous to the insertion of the rule. Fig. 4 is a similar view with the rule in place.

30 Referring to the drawings, A represents the body of the slug or linotype, preferably of type-metal, having on one edge in relief and integral therewith a series of type characters *a*, suitably spaced or justified to print
35 a line. Heretofore these slugs have been produced with complete type, each adapted to print an ordinary letter or character. In carrying my invention into effect I provide the slug with a longitudinal groove *a'*, extending through the type characters and
40 adapted to receive a rule or printing-strip D, of brass, type-metal, or other suitable material. The groove and the rule are made of such depth that when the rule is inserted it
45 will be firmly supported with its upper or outer edge flush with the face of the type, as shown in Fig. 3, so that when an impression is taken from the slug the type characters will appear with a continuous canceling-line
50 extending across them and also across the spaces between the words.

My grooved slug may be produced in any suitable manner and by any appropriate

mechanism. I prefer to form it in an ordinary Mergenthaler linotype-machine by
55 means of the special matrices forming the subject of an application of even date herewith, Serial No. 337,933, but the slug may be cast in the ordinary manner with complete or unmutilated characters thereon and the
60 groove subsequently formed through the characters by means of a rotary saw or other cutting-tool.

While I prefer to locate the slot centrally in relation to the type characters, it is to be
65 understood that it may be varied in size and location as circumstances may demand.

I believe myself to be the first to construct a slug or linotype with a groove or cavity adapted to receive a printing member, and
70 this I claim in any form the equivalent of that herein shown.

It will of course be understood that the groove should extend only through those
75 characters which are to be printed in connection with the canceling-line, and the groove may therefore be extended through a single word or character and the rule made of corresponding length, the remaining characters
80 in the slug to be complete and adapted to print unmutilated or uncanceled characters, as usual.

The rule or other printing member may be constructed of brass with a view to its repeated use, or it may be constructed of type-metal or of any other suitable alloy fusing at
85 a low temperature. Use of the soft metal is preferred, because it admits of the slugs as a whole being returned to the metal-pot of the linotype-machine without labor and loss of
90 time incident to the removal of the rules.

Having described my invention, what I claim is—

1. A line-printing slug having on one edge a series of type characters, and having also a
95 recess to receive a printing member in position to modify one or more of the type characters.

2. A line-printing slug having on one edge a series of characters properly spaced to print
100 words, and having in the printing edge a longitudinal groove extending through the characters and adapted to receive a printing-rule.

3. A line-printing slug provided on one edge with type characters, and having a
105 groove extending through said characters, in

combination with a printing-rule seated in said groove.

4. A line-printing slug having on one edge type characters suitably spaced to print separated words, in combination with a rule
5 seated in the printing edge and extending across the type characters, and also across the spaces between the words.

5. A printing-slug having a groove through

the type thereon, in combination with a soft- 10 metal rule seated therein.

In testimony whereof I hereunto set my hand, this 5th day of October, 1906, in the presence of two attesting witnesses.

JOHN RAPHAEL ROGERS.

Witnesses:

D. S. KENNEDY,
SAMUEL SMITH.