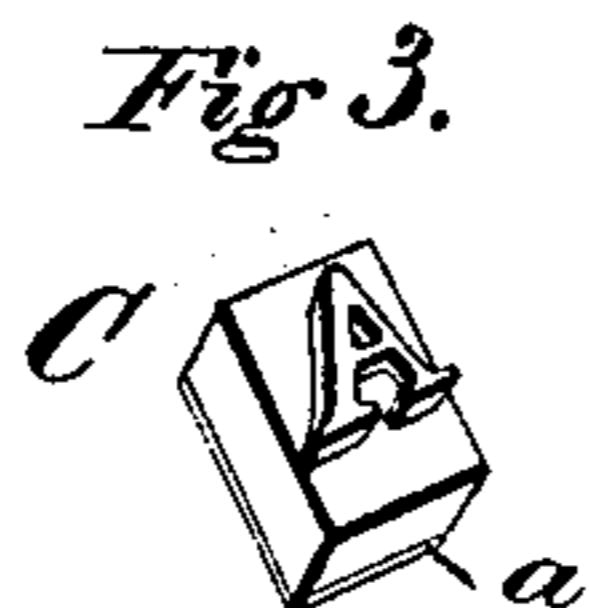
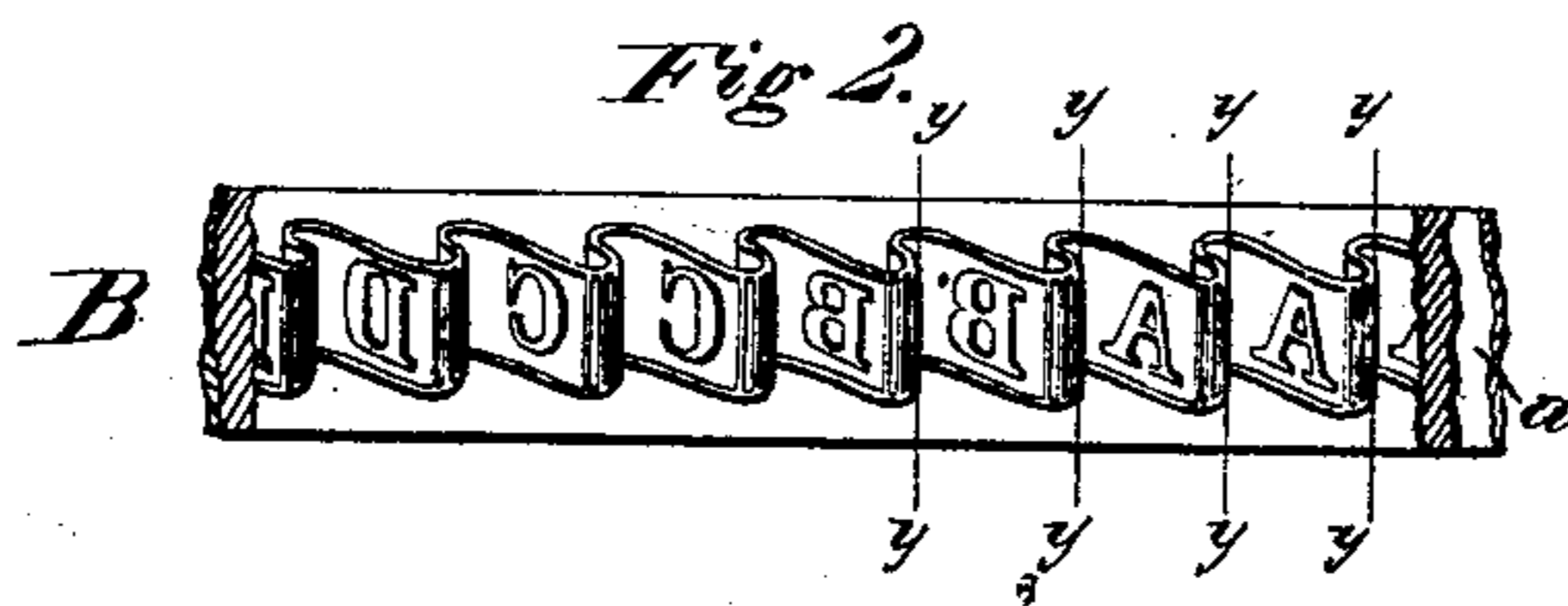
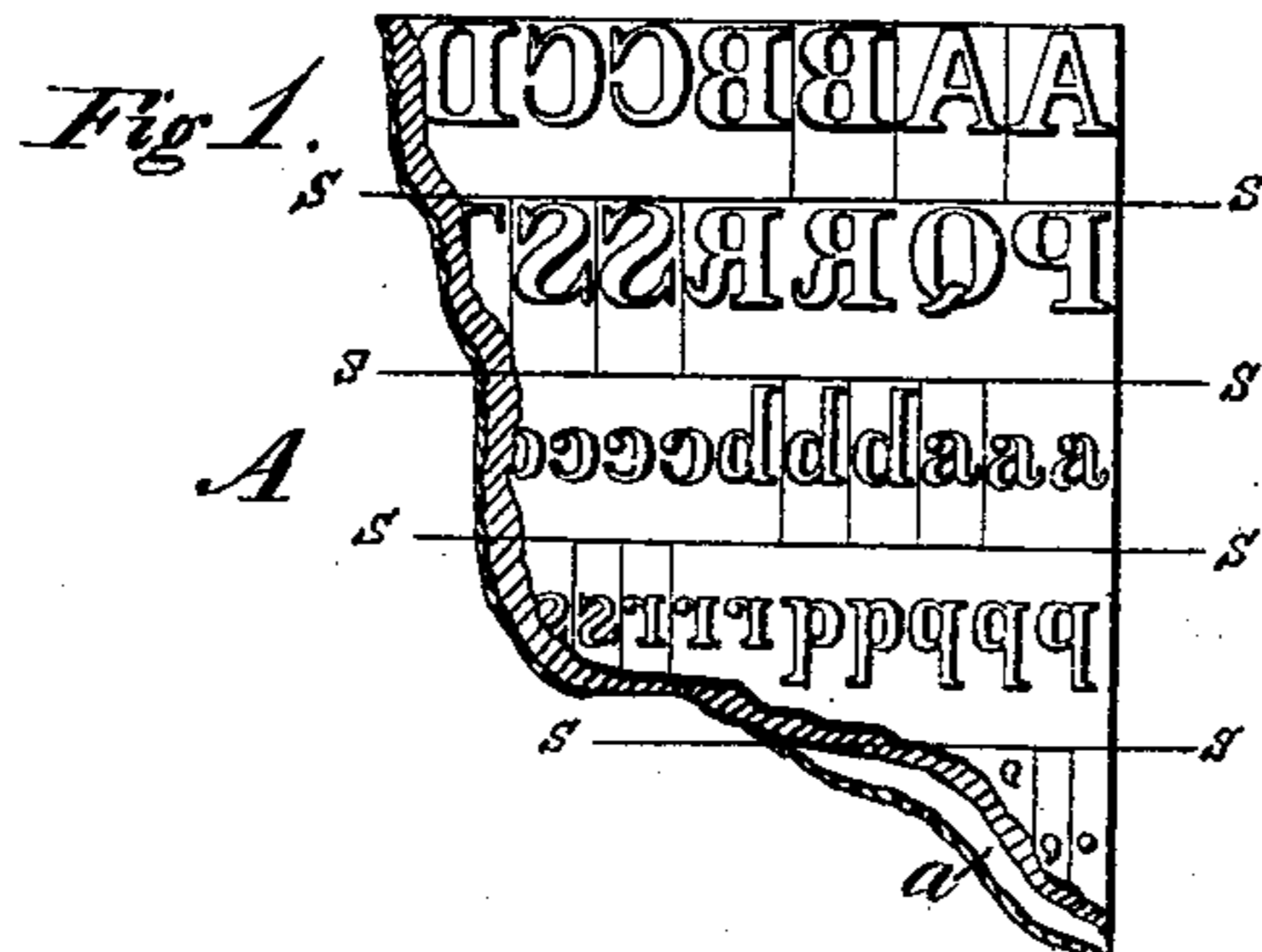


O. CHURCHILL.

Rubber Type.

No. 132,253.

Patented Oct. 15, 1872.



*Witnesses.*

*Harry King.*  
*Phil T. Dodge.*

*Inventor.*

*Olney Churchill*  
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*attys.*

# UNITED STATES PATENT OFFICE.

OLNEY CHURCHILL, OF NEW YORK, N. Y.

## IMPROVEMENT IN RUBBER TYPE.

Specification forming part of Letters Patent No. **132,253**, dated October 15, 1872.

*To all whom it may concern:*

Be it known that I, OLNEY CHURCHILL, of New York, in the county of New York and State of New York, have invented certain Improvements in the Manufacture of Rubber Type, of which the following is a specification, reference being had to the accompanying drawing.

My invention relates to rubber and other elastic type; and consists in forming them in sheets with a thin backing of cloth, paper, or like material, which admits of their being cut apart with sharp angles, and prevents them from being pressed out of shape by use.

Figure 1 is a face view of a portion of a sheet of type made on my plan; Fig. 2, a strip cut from the sheet containing a line of type; and Fig. 3, a single finished type.

My invention relates more especially to the manufacture of the short flat type used in hand-stamps, although it may be applied to the production of the long type used by printers. Heretofore it has been customary to cast these type in molds singly and one at a time, an operation which was slow, laborious, and expensive, and by which it was impossible to produce them with sharp corners. The object of my invention is to produce them cheaply and rapidly, and with perfect angles, so that they may be set up and used in the same manner as those of metal.

In order to do this I prepare a mold of any suitable material, containing the impression of a font, alphabet, or other assortment of type, and then cast the rubber thereon and vulcanize it, taking great care to make the

sheet of uniform thickness. In this way I produce a sheet, A, containing a large number of projecting letters or characters. This sheet I cut or split by means of a knife or by suitable machinery, on the lines *s s*, so as to form a number of strips, B, each containing a row or line of letters, as shown in Fig. 2. These strips I sever between the letters, as indicated by the lines *y y*, and thus produce separate independent type, as shown in Fig. 3. In this manner I produce the type rapidly, cheaply, with sharp corners, and of a uniform size and shape, so that they may be used with the same facility as those of metal. To the back of the sheet I apply a sheet of cloth or paper, *a*, as shown, which enables the knife to make a sharp clean finish of its cut when separating the type, and also holds the type in shape and prevents them from spreading at their lower ends.

It is obvious that my method of forming the type and of applying the cloth is applicable where the type are made of elastic compounds as well as to rubber.

Having thus described my invention, what I claim is—

Rubber type, molded in sheets containing a series of letters or characters, and backed with a layer of cloth or paper, whereby they can be separated or cut from the sheet with greater accuracy and ease, substantially as described.

OLNEY CHURCHILL.

Witnesses:

J. MCKENNEY,  
PHIL. T. DODGE.