

G. W. GLAZIER.  
 Manufacture of Logotype.

No. 202,716.

Patented April 23, 1878.

Fig. 1.

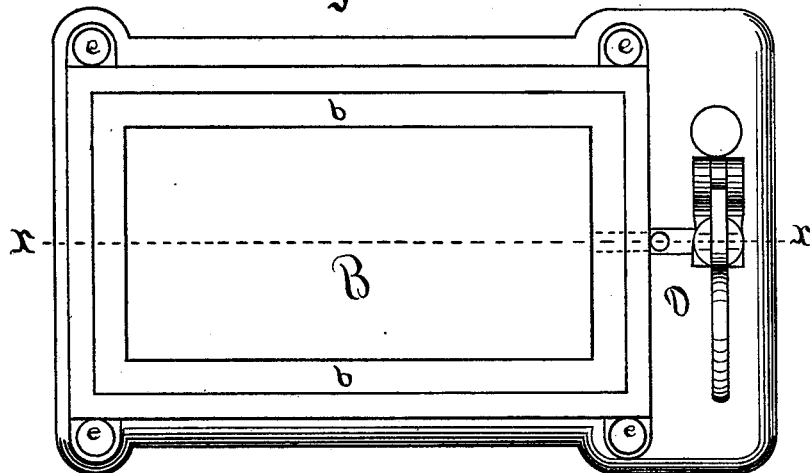


Fig. 2.

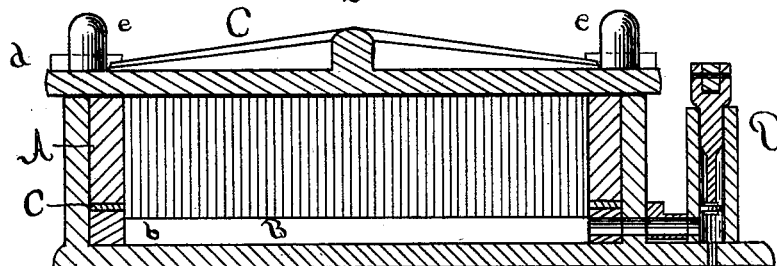


Fig. 3.

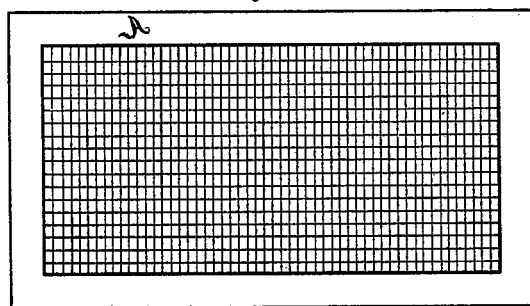


Fig. 4.

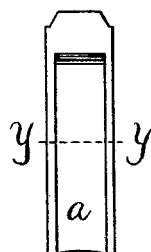


Fig. 5.



WITNESSES  
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INVENTOR  
*George W. Glazier*  
 By *James Shepard Atty.*

# UNITED STATES PATENT OFFICE.

GEORGE W. GLAZIER, OF SALEM, ASSIGNOR OF ONE-HALF HIS RIGHT TO  
THOMAS E. SMITH AND BENJAMIN SCRIBNER, JR., OF LYNN, MASS.

## IMPROVEMENT IN MANUFACTURE OF LOGOTYPES.

Specification forming part of Letters Patent No. **202,716**, dated April 23, 1878; application filed  
February 11, 1878.

*To all whom it may concern:*

Be it known that I, GEORGE W. GLAZIER, of Salem, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in the Manufacture of Logotype, of which the following is a specification:

My invention relates to the mode of sticking together two or more individual types with rubber or other elastic cements; and consists in setting up, in the ordinary manner, types having an open end groove on one side, extending from the base of the types upward to near the top or face end, confining the same in a chase or frame with said open end grooves exposed in a suitable chamber, and forcing the rubber under pressure up into the grooves in the sides of the types, as hereinafter described.

In the accompanying drawings, Figure 1 is a top view of a box and chamber for inclosing the types, and a pump for use in the practice of my invention. Fig. 2 is a vertical section of the same on line *x x* of Fig. 1, together with a chase or frame full of types and the cover of the box and chamber, showing the manner of confining type for cementing it together in the practice of my invention. Fig. 3 represents a chase and types. Fig. 4 is an enlarged side elevation of a type adapted to be cemented to a fellow type in accordance with my invention; and Fig. 5 is a transverse section of the same on line *y y* of Fig. 4.

I am aware that logotypes have heretofore been made by cementing individual types together with an elastic cement, said types having depressions or recesses running in various directions made in them, which grooves were filled with cement by hand before the individual types were placed together, all of which prior art is hereby disclaimed.

In the practice of my invention, I form a shallow groove, *a*, in one side of the type, said groove stopping short of the upper or face end of the type, as shown, but extending downward to the extreme base thereof, so that when the plain side of a space, block, or type is placed against the grooved side the groove is inclosed upon all sides, except at its lower end, which is open. These grooves are formed upon

all the types in the several cases designed for use in making logotypes, and they may be cut either in old or new types by suitable machinery, or new types may be made having the groove formed in them in the process of manufacture. Said grooves will not in the least interfere with any of the ordinary uses of the types.

Types grooved in the manner described are set up in the usual manner into the desired words or parts of words, which, if desired, may be divided by a space; or they may be set up without any interposing material between each intended logotype. When a chaseful of types has been set up, (or if not enough to fill a chase, spaces or blocks of any kind may be added,) the whole is secured firmly in any ordinary manner within the chase. A represents a chase filled with types in both Figs. 2 and 3.

The cementing-chamber B consists of a strong box, the interior of which will allow the chase to drop into it freely, as shown in Fig. 2. A rib or ledge, *b*, surrounds the bottom of the chamber, the same being elevated somewhat, and extending inward from the inside walls of the box, at most no farther than the width of the chase A on each of its sides. The top of this ledge *b* forms a flat seat, upon which the under side of the chase can rest. I prefer to place a packing, *c*, of rubber or other yielding material, to make a tight joint, between the top of the ledge *b* and the under side of the chase A. The chase is placed in the box with the open end of the grooves in the types downward, the ledge holding up the type, so as to leave a space under them in the chamber B, as shown in Fig. 2. A cover, C, is then placed on the box, and secured in place firmly in any proper manner, as by pins *d* passing through studs *e*, which extend through the cover.

It will be noticed that the under side of the cover is flat, and governs the faces of the types to level them. Rubber or other elastic cement is placed in the chamber B previous to putting in the chase and types. By means of a force-pump, D, of any ordinary construction, the rubber is forced from the chamber B upward into the open ends of the grooves in the type

until they are filled. The rubber might, however, be pumped into the chamber; or rubber might be applied to the ends of the types on the under side of the chase, and then water or air pumped into the chamber, or other means employed of imparting a powerful pressure, to force the rubber up into the grooves. When the grooves are thus filled, the types are stuck together firmly enough to adhere with any ordinary handling after they are removed from the chase. The separate words, syllables, or whatever each logotype may be, are then divided from the rest, and their sides cleaned with benzine or its equivalent, when they are ready for distribution and use in the ordinary manner of using logotypes.

By my invention the grooved type may be used for any of the purposes of ordinary types, or for forming elastic logotypes, while the open end groove, terminating at the base of the types,

admits of logotypes being set as rapidly and in the same manner as ordinary matter, and then afterward being cemented together.

I claim as my invention—

The process of forming logotypes herein described, which consists in setting up in the ordinary manner, without cement, types having the longitudinal groove, open at the base and extending upward on one side of each type, confining the same in a chase or frame with said open ends of the grooves exposed within a suitable chamber, and then forcing the rubber or equivalent cement under pressure up into the grooves in the sides of the types, substantially as described, and for the purpose specified.

GEORGE W. GLAZIER.

Witnesses:

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SAMUEL A. POTTER.