No. 622,939.

Patented Apr. 11, 1899.

W. T. BARNUM.

ELECTROTYPE.

(Application filed Aug. 20, 1898.)

(No Model.)

Fig. 1.

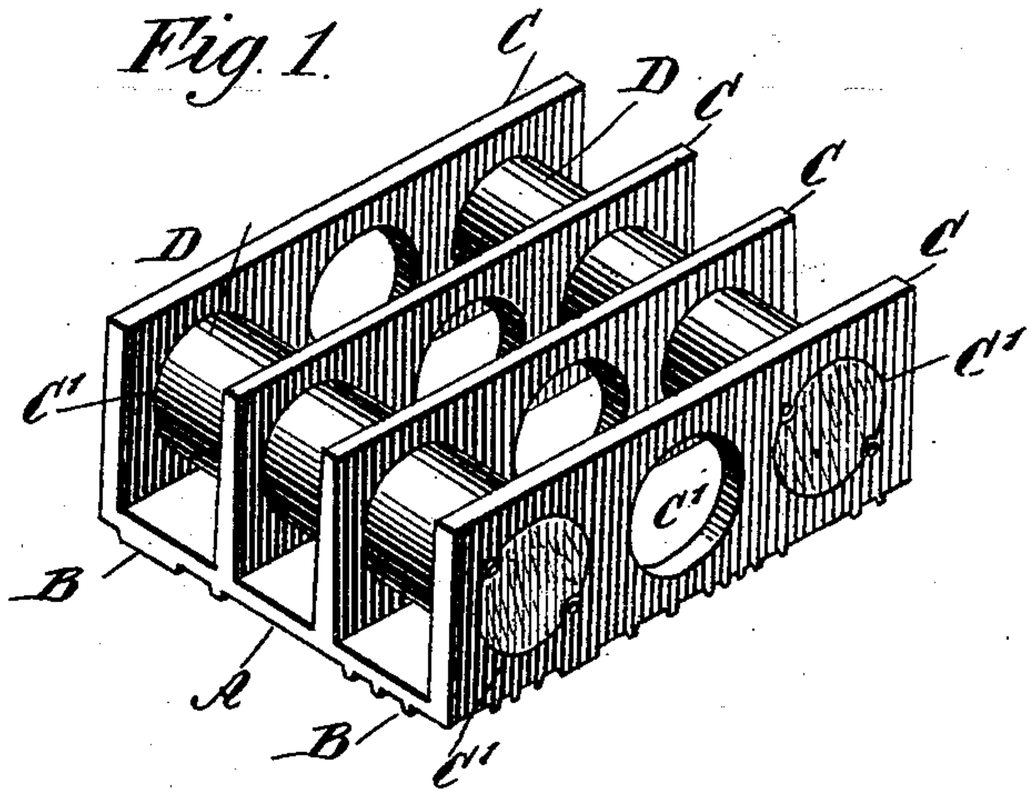


Fig. 2.

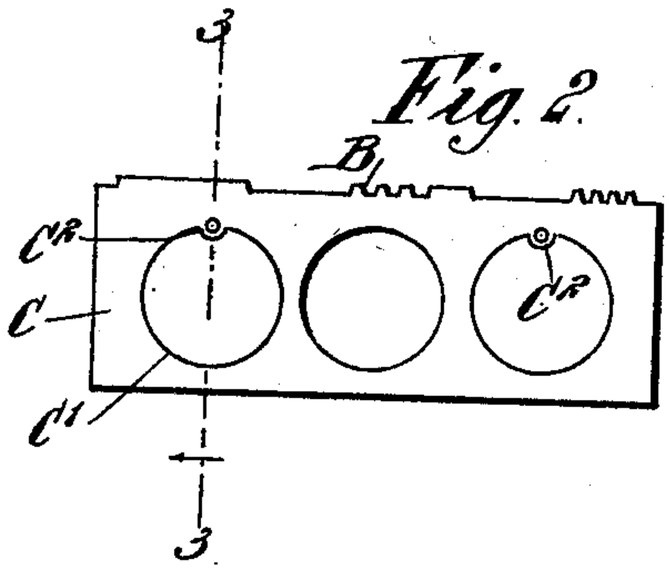


Fig. 3.

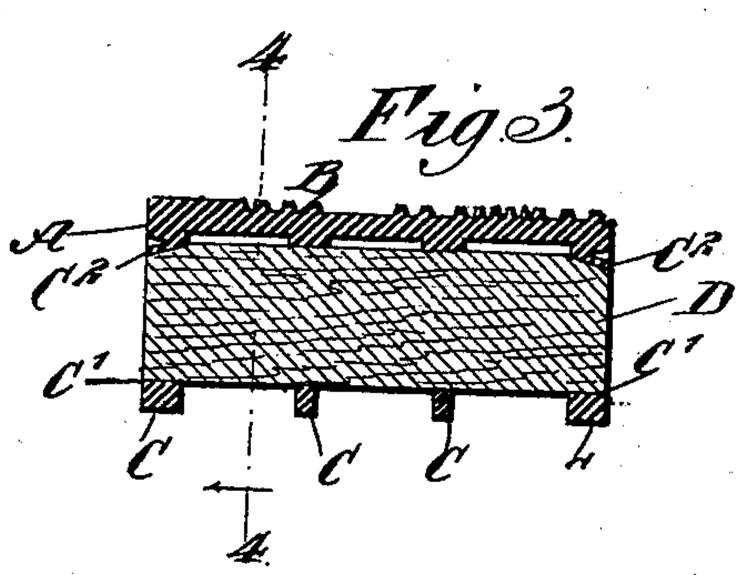
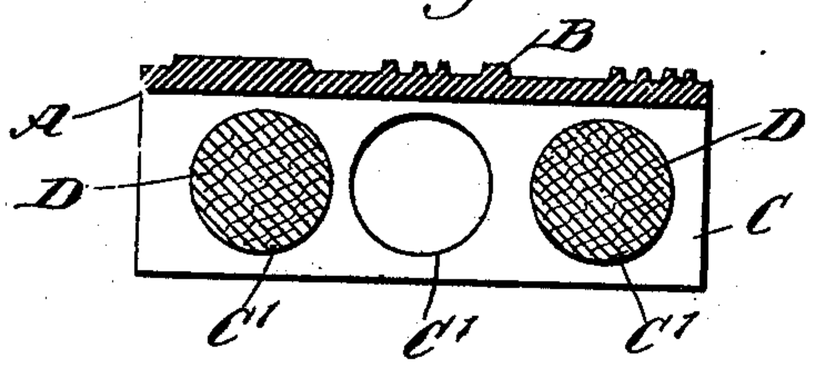


Fig. 4.



WITNESSES:

Paul Johns

Rud. F. Hoult

INVENTOR

W. T. Barnum.

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM T. BARNUM, OF NEW HAVEN, CONNECTICUT.

ELECTROTYPE.

SPECIFICATION forming part of Letters Patent No. 622,939, dated April 11, 1899.

Application filed August 20, 1898. Serial No. 689,097. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM T. BARNUM, of New Haven, in the county of New Haven and State of Connecticut, have invented a new and Improved Electrotype, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved electrotype which is simple and durable in construction, cheap to manufacture, and arranged to greatly reduce any strain incident to its use in the printing-press and to greatly reduce the weight of the metal skeleton base.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is an inverted perspective view of the improvement. Fig. 2 is a side elevation of the same. Fig. 3 is a transverse section of the same on the line 3 3 in Fig. 2, and Fig. 4 is a longitudinal sectional elevation of the same on the line 4 4 in Fig. 3.

The improved electrotype is provided with block A, carrying on its upper face the type characters B, and from the under side of said block extend a series of spaced parallel flanges C, made integral with the block A and forming a metal skeleton base for the same. While I have shown in the drawings two flanges C as intervening the outer flanges, I do not limit myself to the use of that number, as I may in practice employ only one of said intervening flanges or more than two of the same, as desired. In the flanges C are arranged sets of registering apertures C′, some of the sets of said apertures being adapted to receive strengtheners D, preferably made in the shape of rods driven into the registering apertures, the ends of the rods being flush with the outer faces of the outermost flanges. As shown in Fig. 2, wooden rods are employed at or near the ends of the flanges, the middle row of registering apertures being left unoccupied. These strengtheners may, if preferred, be constructed of other material—such, for instance, as aluminium, iron, or carbon.

In order to securely fasten the strengtheners in place, I prefer to offset a portion C^2 of the metal of the outermost flanges C by the use of a suitable tool, so as to force this portion of the metal into the rods and securely lock the strengthener in place. The strengtheners, if constructed of wood, may, however, be fastened in place by driving a headless nail through any of the flanges C into the strengthener.

It will be seen that by the arrangement described the metal skeleton base is greatly reduced in weight by removing considerable of the metal of the flanges, and at the same time the skeleton base is greatly strengthened by the rods passing through and extending transversely of the flanges.

An electrotype constructed in the manner described is rendered very strong and readily resists any strain incident to the use of the electrotype in a printing-press.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. An electrotype, comprising a block carrying the type characters and having spaced supporting-flanges integral with the block, the said flanges having sets of registering apertures, and strengthening-rods fitted in some of the sets of the registering apertures, substantially as shown and described.

2. An electrotype, comprising a block carrying the type characters and having spaced supporting-flanges integral with the block, the said flanges having sets of registering apertures, strengthening-rods fitted in some of the sets of the registering apertures, and means, substantially as described, for securely fastening the strengthening-rods in place, as set forth.

3. A printing-block, having flanges formed thereon and constituting the body of the block, the said flanges having a set of registering apertures, and a strengthening-rod fitted in said apertures and serving rigidly to support the flanges, the one against the other.

WILLIAM T. BARNUM.

Witnesses:
HARRY W. ASHER,
ROBT. S. KEARNEY.