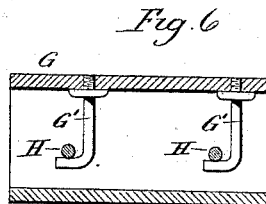
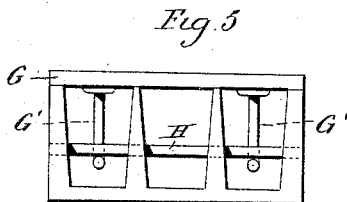
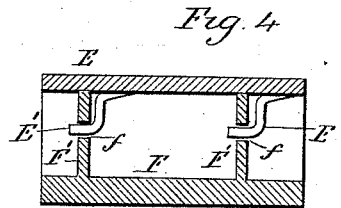
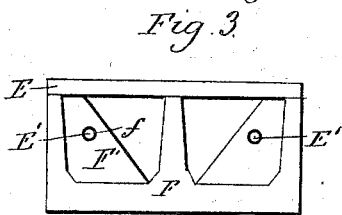
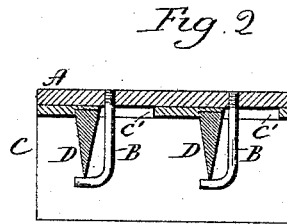
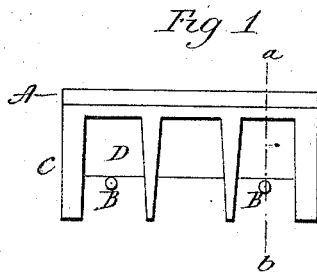


(No Model.)

W. T. BARNUM.  
ELECTROTYPE.

No. 489,704.

Patented Jan. 10, 1893.



Witnesses.  
*John H. Shumway*  
*William D. Kellogg*

*William T. Barnum*  
Inventor.  
*By*  
*Edwin Keyman*

# UNITED STATES PATENT OFFICE.

WILLIAM T. BARNUM, OF NEW HAVEN, CONNECTICUT.

## ELECTROTYPE.

SPECIFICATION forming part of Letters Patent No. 489,704, dated January 10, 1893.

Application filed November 23, 1891. Serial No. 412,794. (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 Improvement in Electrotypes; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a view in end elevation of an electrotype block constructed in accordance with my invention. Fig. 2, a view of the said block in vertical longitudinal section on the line *a—b* of Fig. 1. Figs. 3, 4, 5 and 6, are corresponding views of some of the different modified forms which my invention may assume.

My invention relates to an improvement in that class of electrotype-blocks in which the body-portion and face of the block are made independently, and secured together without solder, the object being to provide simple and effective means for readily coupling and uncoupling the two members of such blocks.

With these ends in view, my invention consists in certain details of construction and combinations of parts as will be hereinafter described and particularly recited in the claim.

As shown by Figs. 1 and 2 of the drawings, the face-plate *A*, of the electrotype is provided with four heavy, long shanked hooks *B*, the tongues whereof extend parallel with its length. In this case the skeleton body *C*, of the electrotype is provided in its closed upper face with four longitudinally elongated slots *C'*, corresponding in arrangement to the said hooks which respectively pass through them for engagement with the transverse webs *D D*, which may either be formed integral with the said body-portion *C*, or made of harder metal and cast therein, as provided for in United States Patent No. 441,920 granted to me December 2 1890 the said body-portion being an ordinary skeleton body-portion having a closed smooth upper face on which the face-plate *A*, is placed, and having its lower face open. As herein shown the webs are cast in place in accordance with my said patent. It will be readily understood that by sliding the face-plate longitudinally upon the

body-portion, the hooks *B*, may be engaged with and disengaged from the transverse ribs *D*, thus coupling and uncoupling the two members of the electrotype.

As shown by Figs. 3 and 4 of the drawings the face-plate *E*, is provided with four heavy depending hooks *E'*, the tongues whereof are arranged at a right angle to its open ends. The body portion *F*, of the block in this case is constructed with an open upper and a closed lower face, and with transverse webs *F'*, furnished with openings *f*, to receive the tongues of the hooks.

As shown by Figs. 5 and 6 of the drawings, the face-plate *G*, is provided with four heavy long shanked hooks *G'*, with their tongues arranged at a right angle to its open ends. In this case the body-portion of the electrotype is closed at its lower and open at its upper end, and is provided with two transverse pins *H*, for engagement by the said hooks in coupling the two members of the electrotype together.

It will be observed that in all of the constructions shown and described, the skeleton or chambered body-portion is deep enough to receive good sized and strong hooks and to furnish an adequate engagement for the same with ample room for their free movement in coupling and uncoupling the two members of the block.

It will be seen that under all of the constructions shown and described, the two members of the blocks may be coupled and uncoupled by sliding them longitudinally upon each other, a construction making the use of the blocks very simple and convenient.

Although the blocks are not always longer than wide, I have chosen to consider that their length is always represented by the distance between their open ends, which I explain to make it clear that it is designed to arrange the tongues of the hooks parallel with the length of the face-plate, which is the same thing as to say at a right angle to the ends thereof.

I do not confine myself to making the skeleton body-portions of the blocks in any particular way, and in view of the modifications herein suggested I would have it understood that I do not limit myself to the exact con-

struction herein shown and described, but hold myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

5 I am aware that it is old to hook the face-plate and body-portion of an electrotype-block together, whereby they are coupled and uncoupled by relative longitudinal sliding movement. But electrotype-blocks heretofore constructed on this principle, have had solid body-  
10 portions not exceeding twice the thickness of their face-plates, one member being furnished with some form of hooks and the other constructed with suitable recesses to receive the  
15 same. In any case, however, the hooks were small and short, and the recesses shallow, of necessity, owing to the comparative thinness of the two members. On the other hand my present invention by employing a deep skeleton  
20 body-portion adapted to be engaged by large hooks depending from the lower side of the face-plate, secures a construction which is simple, strong, and very easily operated.

Having fully described my invention, what

I claim as new and desire to secure by Letters Patent is:—

In an electrotype-block, the combination with a face-plate, of heavy, long shanked hooks secured thereto and depending from the lower side thereof, and having their tongues  
30 parallel with its length; and a deep skeleton body-portion having a closed upper and an open lower face, the former being slotted for the passage of the said hooks through it, the said body-portion also having transverse webs  
35 with the lower edges of which said hooks engage, substantially as described and whereby by employing a deep body-portion strength and durability, and freedom of operation are secured.

40 In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM T. BARNUM.

Witnesses:

FRED C. EARLE,  
J. H. SHUMWAY.