

G. & C. R. SCOTT.
Improvement in Metal Type.

No. 132,184.

Patented Oct. 15, 1872.

FIG. 1

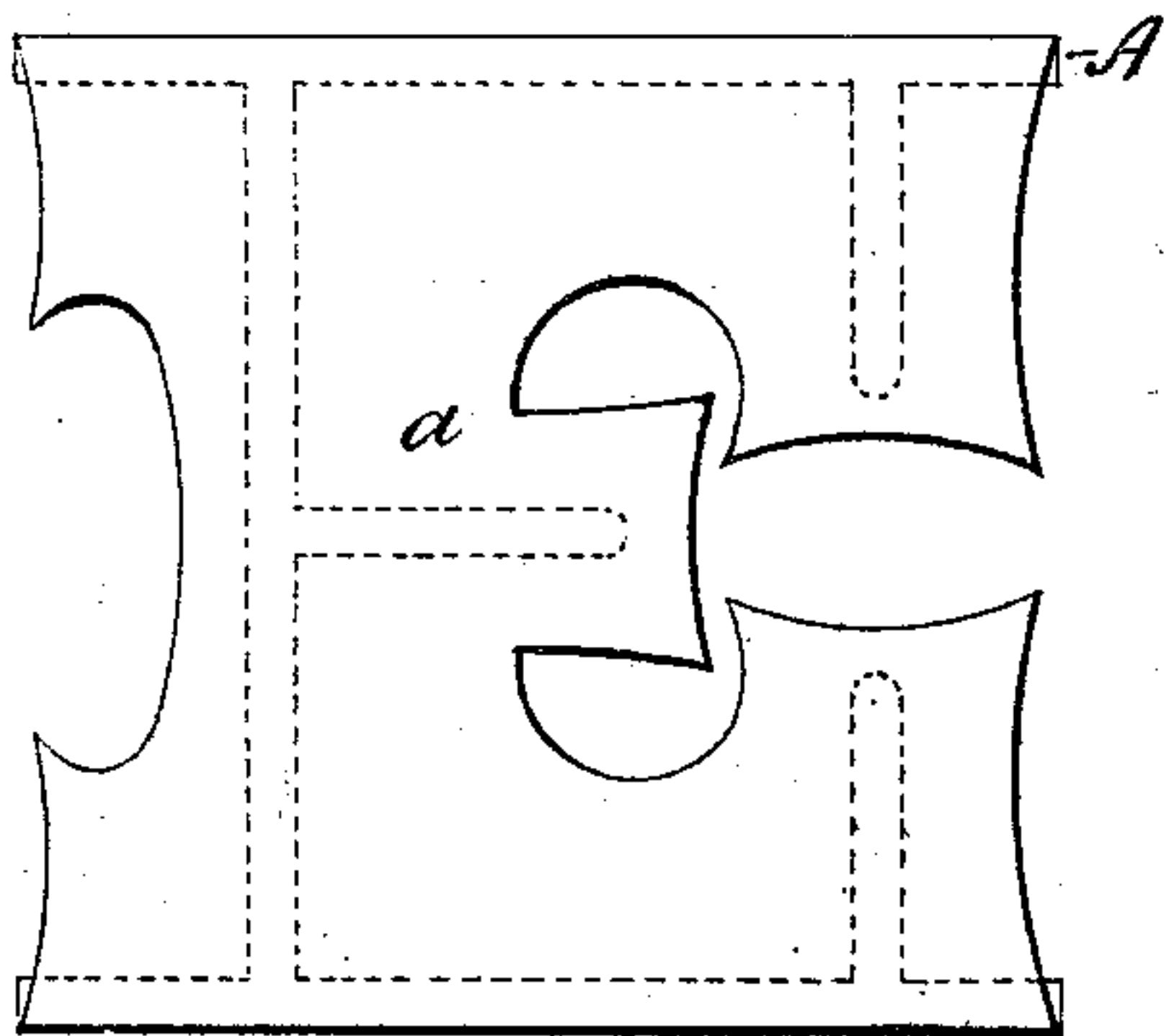


FIG. 2

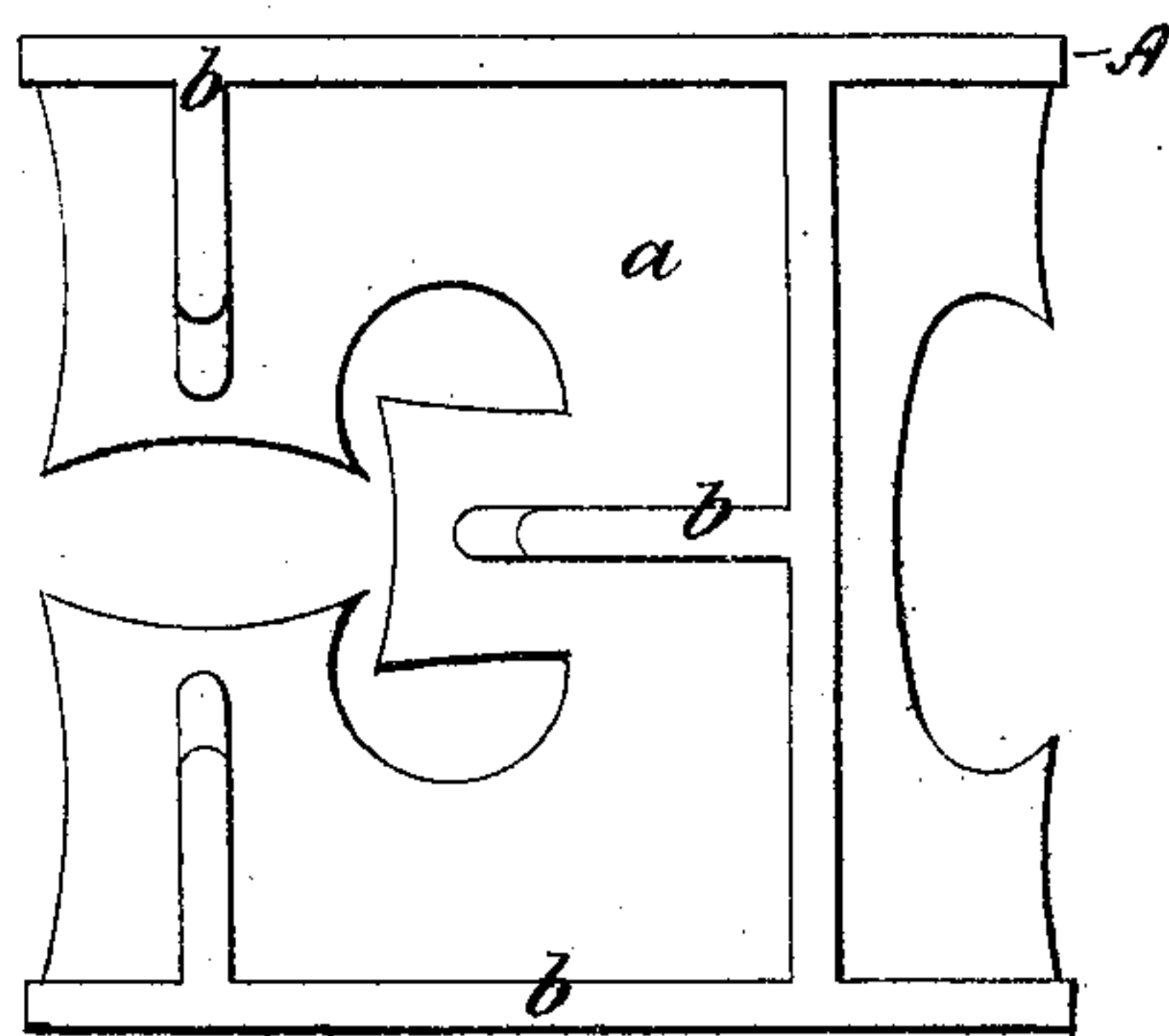


FIG. 4

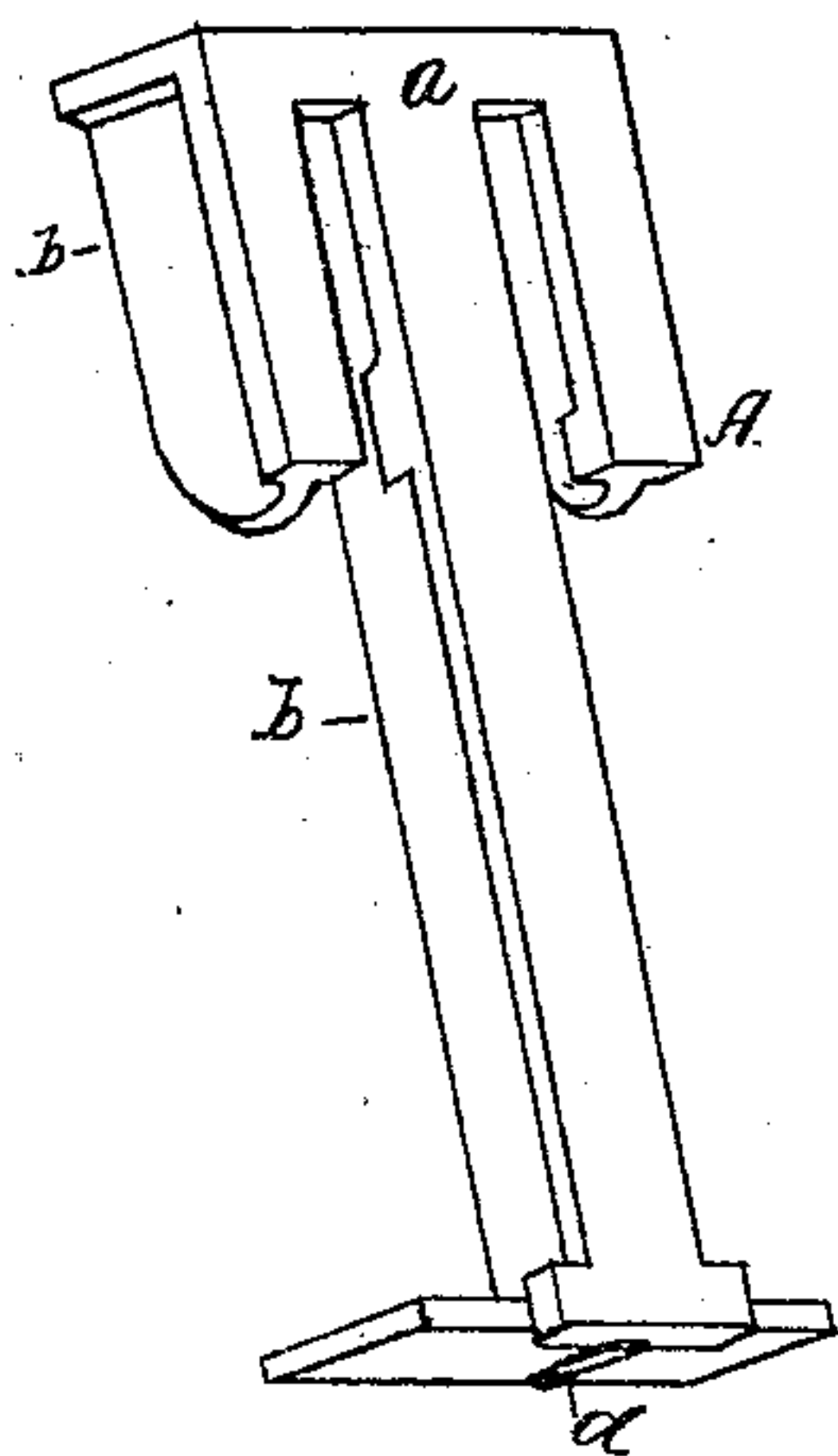


FIG. 3

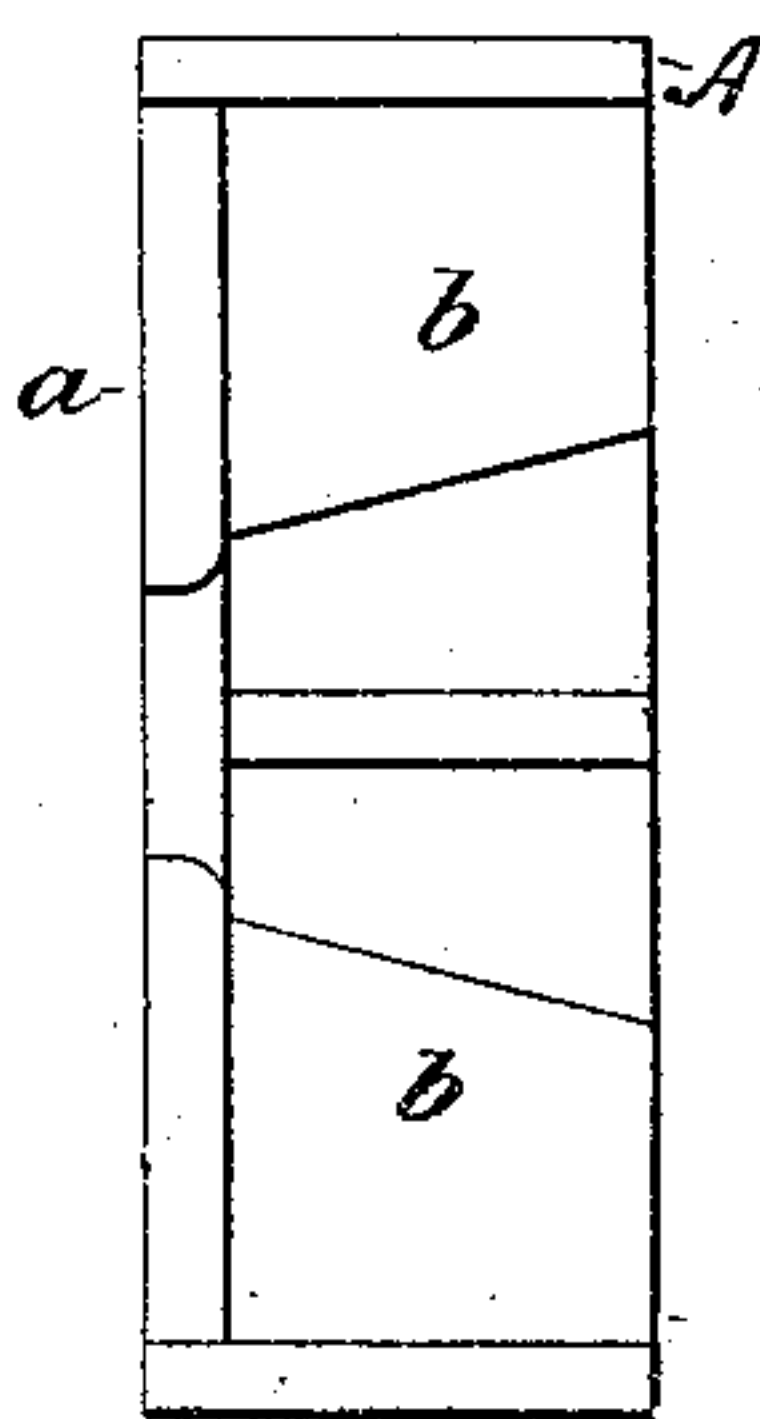


FIG. 5

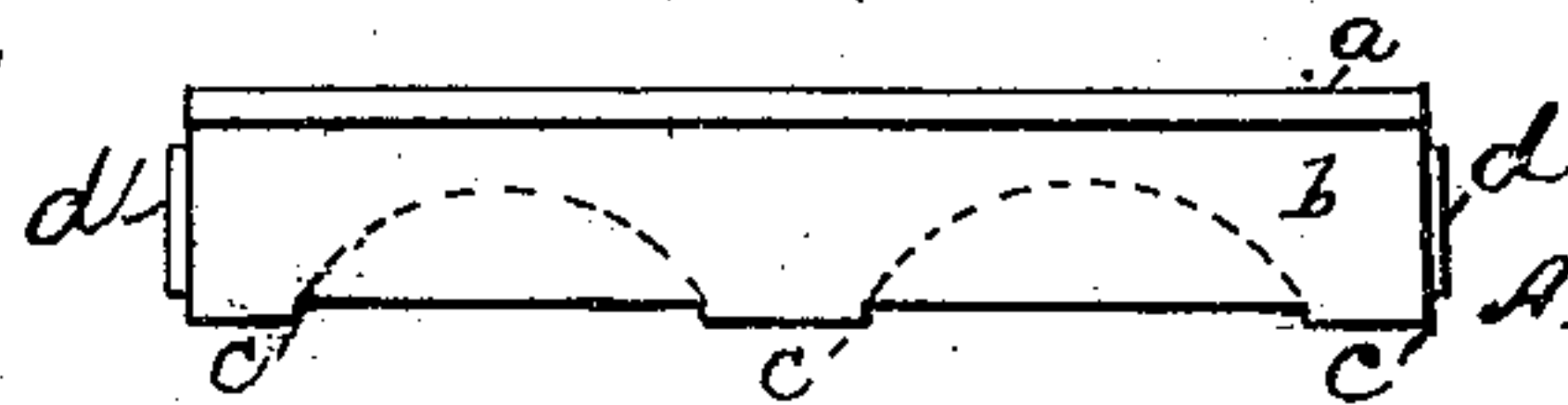
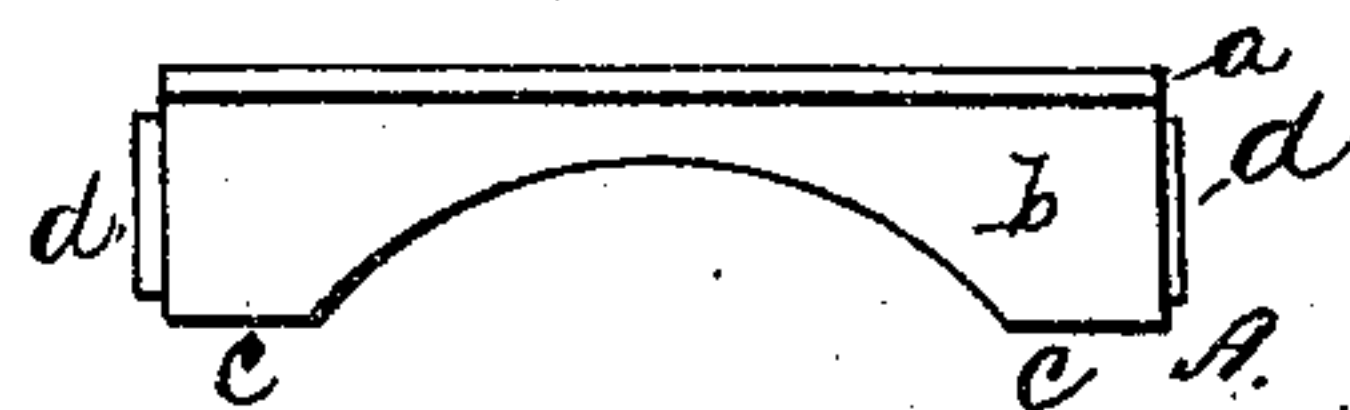


FIG. 6



Witnesses

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UNITED STATES PATENT OFFICE.

GEORGE SCOTT AND CHARLES R. SCOTT, OF MONTREAL, CANADA.

IMPROVEMENT IN METAL TYPES.

Specification forming part of Letters Patent No. 132,184, dated October 15, 1872.

To all whom it may concern:

Be it known that we, GEORGE SCOTT, of the city of Montreal, in the District of Montreal, in the Province of Quebec, Canada, and CHARLES R. SCOTT, of the same place, have invented certain new and useful Improvements on Metal Type; and we do hereby declare that the following is a full, clear, and exact description of the same.

This invention relates especially to that class of type which is designed for printing posters; and consists mainly in forming the face of the type of a suitable sheet of metal, and supporting the same by means of ribs or flanges, the whole being constructed in a single piece, and constituting a new article of manufacture, as will be fully described hereinafter.

In the drawing, Figure 1 is a plan view of my improved type; Fig. 2, a plan view of the type reversed; Fig. 3, an elevation; Fig. 4, a perspective view; and Figs. 5 and 6, views in elevation of a modified form.

To enable others skilled in the art to make and use our invention, we will now proceed to describe fully its construction.

A in the various figures represents the improved type as constructed by us, consisting of the sheet of metal *a* forming the printing-face, and ribs or flanges *b* connected to the face *a*, for the purpose of supporting it in place. These type are cast of any suitable metal, iron being preferred, in a single piece, suitable thickness being given, of course, to the various parts, to make them sufficiently strong for the purpose for which they are intended. The construction is such as to permit them to be easily drawn from the sand, and the supporting-ribs are located in such manner as to support the whole most advantageously. The face of the type being formed of a sheet of rigid metal, it is not absolutely essential to give its supporting-rib a bearing its entire length. If desired, the bearing-surfaces may be furnished only at intervals, as shown at *c c* in Figs. 5 and 6. The metal be-

tween these parts may remain untouched, as shown in full lines, Fig. 5, or the type may be cast without it, as shown in dotted lines in Fig. 5, and in full lines in Fig. 6. This construction is especially advantageous, because, by means of it, it is necessary to dress much less surface with the planer in finishing the type than when the bearing-surface extends the entire length of the supporting-rib. For the purpose of saving work upon the ends of the type also, we employ a projection, *d*, Figs. 5 and 6, which projection alone needs to be dressed in finishing the type to make this fit accurately in their place in the form.

These type are designed to supersede the wooden type ordinarily employed for poster-printing, in the use of which many serious objections arise, objections which are not found in the use of our improved type. The latter can be produced at much less cost than the wooden type, because after the patterns are once made, an indefinite number can be cast from them. They are not liable to warp; they need no special care in handling, working, or keeping them; they do not absorb the ink; are much more durable; and their weight in consequence of their construction is not much greater than the solid wood type.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

As a new article of manufacture, type consisting only of the printing-face, and ribs or flanges supporting the printing-face, these flanges also being adapted to furnish suitable bearings for locking the type in the chase, the two parts being united in one homogeneous whole by casting, substantially as described.

GEORGE SCOTT.
CHAS. R. SCOTT.

Witnesses:

CHARLES G. C. SIMPSON,
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