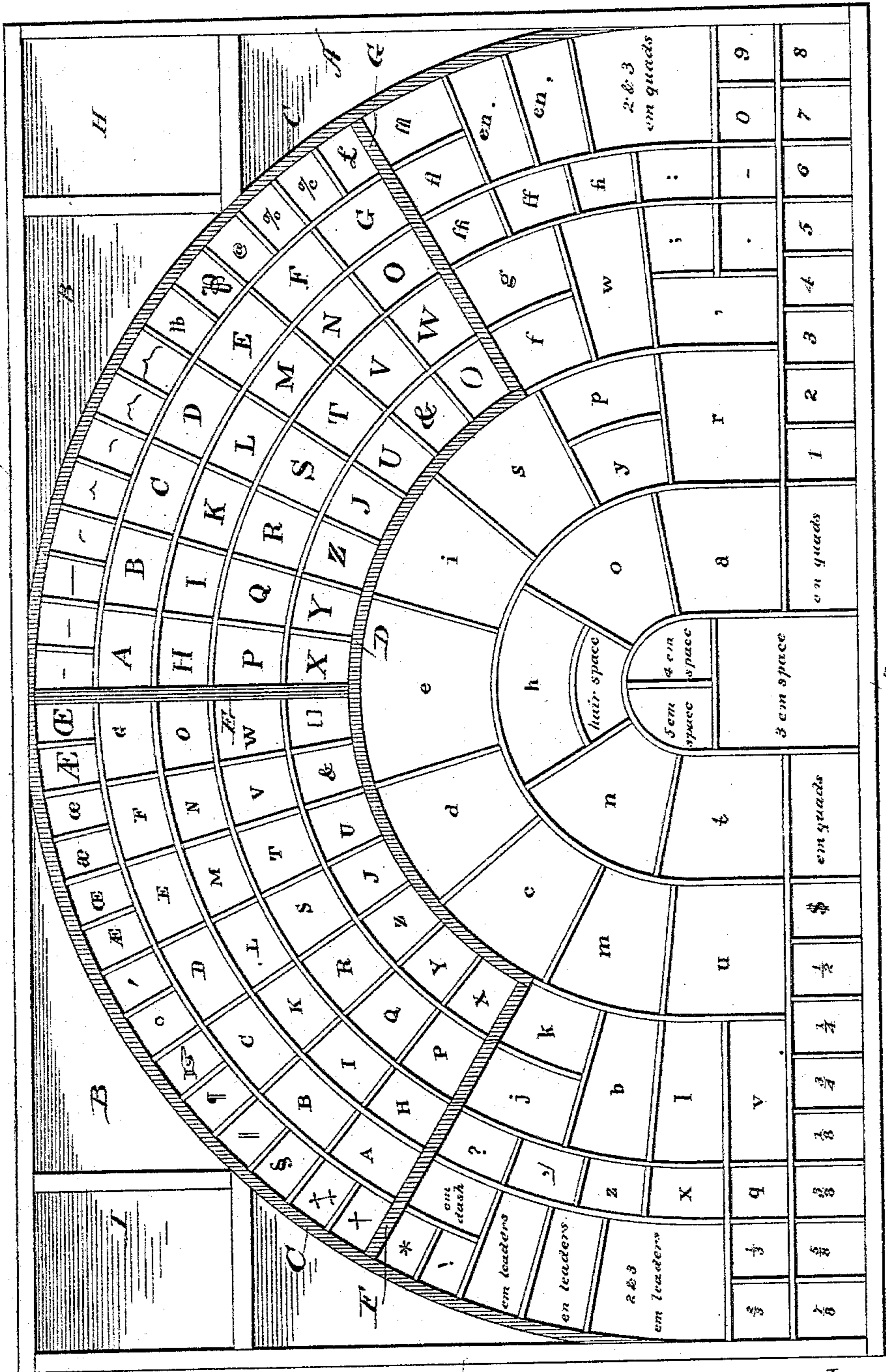


(No Model.)

G. B. MILES.
TYPE CASE.

No. 494,760.

Patented Apr. 4, 1893.



Witnesses

J. P. Herman
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UNITED STATES PATENT OFFICE.

GEORGE B. MILES, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR TO
EMILY F. HORT AND LUSANAH A. CRANDELL, OF SAME PLACE.

TYPE-CASE.

SPECIFICATION forming part of Letters Patent No. 494,760, dated April 4, 1893.

Application filed February 17, 1892. Serial No. 421,874. (No model.)

To all whom it may concern:

Be it known that I, GEORGE B. MILES, a citizen of the United States of America, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Type-Cases, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to an improved type-case for printers' use; and one object I have in view is the production of a single case adapted to contain all the letters usually employed in ordinary composition, such as lower case, capitals, small capitals, punctuation-marks, figures, &c., the type-boxes being arranged in practically a semicircular form, and the ribs so disposed as to strengthen the case in its weakest parts, and at the same time to serve as prominent lines of division between the capitals and small capitals and also between the lower-case letters and both sets of capitals.

Another object is to facilitate the work of the compositor in setting and distributing the type, which I accomplish by locating the larger boxes, for containing the letters most frequently used, in the lower central portion of the case, whereby, as they are arranged in the arcs of circles, they are in positions most convenient to him.

Another object is to render the case, with the boxes therein arranged in practically a semicircular form, capable of storage in the ordinary case-racks, and this I accomplish by making the frame, consisting of the bottom board and the rails, rectangular in shape.

The invention will first be described in connection with the accompanying drawing, which is a plan view of my improved type-case, and then pointed out in the claims.

Referring to the drawing, A represents the rails, which are of slightly greater height than the type-boxes, as usual; and B represents the bottom board, which is secured to the rails in the ordinary manner. The frame thus formed by the rails and bottom board is rectangular in shape, in order to adapt the case for storage in the ordinary case-racks. Springing from near the lower ends of the end rails A is a semicircular rib C, the central portion of which touches the upper rail; and concentric

therewith and midway of the radius of this rib C is another shorter rib D. Between these ribs C and D are radial ribs E F G, the ribs F G being located at the ends of the rib D and the rib E centrally between them. These ribs, to which the bottom board is secured and which serve to give rigidity to the box structure, being thus placed not only serve to strengthen the case where strength is most needed, but they also present to the eye of the compositor distinct lines of division between the capitals and small capitals, and also between the lower-case letters and both sets of capitals.

In arranging the type-boxes, I place those designed to contain the capitals, small capitals, and characters in the space bounded by the ribs C D F G, and separate the two sets of capitals by the rib E. All the boxes for containing the lower-case letters, (in which term may be included the punctuation-marks, figures, and fractions,) the leaders, the quadrats, and the spaces I place below the ribs D F G, locating the larger boxes, for containing those types which are most frequently used, directly below the rib D, in positions most convenient to the compositor.

It will be observed that all the boxes are not included in an exact semicircle, for a true semicircle would be struck from a point midway of a line drawn between the ends of the rib C. My purpose in prolonging the width of the case slightly beyond a semicircle is to afford me room to place all necessary boxes of desirable size in a case of the exact length of the common cases now in use. It will be apparent, however, that by reducing the sizes of the boxes or by slightly lengthening the case all the boxes may be placed within a semicircle; and for this reason the arrangement of the boxes in my type-case is termed semicircular in the claims.

In the blank spaces in the upper corners of the case may be placed boxes H I, for containing leads, rules, &c.; or the compositor may utilize those spaces in various other ways—such, for instance, as by dividing them off into layouts for running over matter, and the like.

A single case constructed in the manner above described possesses advantages over the ordinary two-case outfit. It facilitates com-

position and distribution, it obviates the fatigue to the compositor incident to reaching to the upper-case, it lessens the labor of shifting cases, it lessens floor-space required, it is cheaper in production, and it is easy to keep free of dust.

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

10 1. A type-case having boxes for containing all the letters, points, and characters usually employed in ordinary composition, arranged in semicircular form, with the boxes designed to contain the capitals and small capitals located in the upper central portion of the case, the boxes in the lower central portion of the case, designed to contain the letters most frequently used, being larger than the others; and with boxes in the lower corners and margin for letters, points, and characters least frequently used, all substantially as shown and described.

2. A type-case having boxes for containing all the letters, points, and characters usually employed in ordinary composition, arranged in semicircular form, and having extra boxes in the upper corners so as to give the whole a rectangular contour, the boxes designed to contain the capitals and small capitals being located in the upper central portion of the case, the boxes designed to contain the letters most frequently used being located in the lower central portion of the case and made larger than the others, and the boxes for the letters, points, and characters least frequently used located in the lower corners and margin, all substantially as described and shown.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE B. MILES.

Witnesses:

WM. HUNTER MYERS,
G. W. BALLOCH.