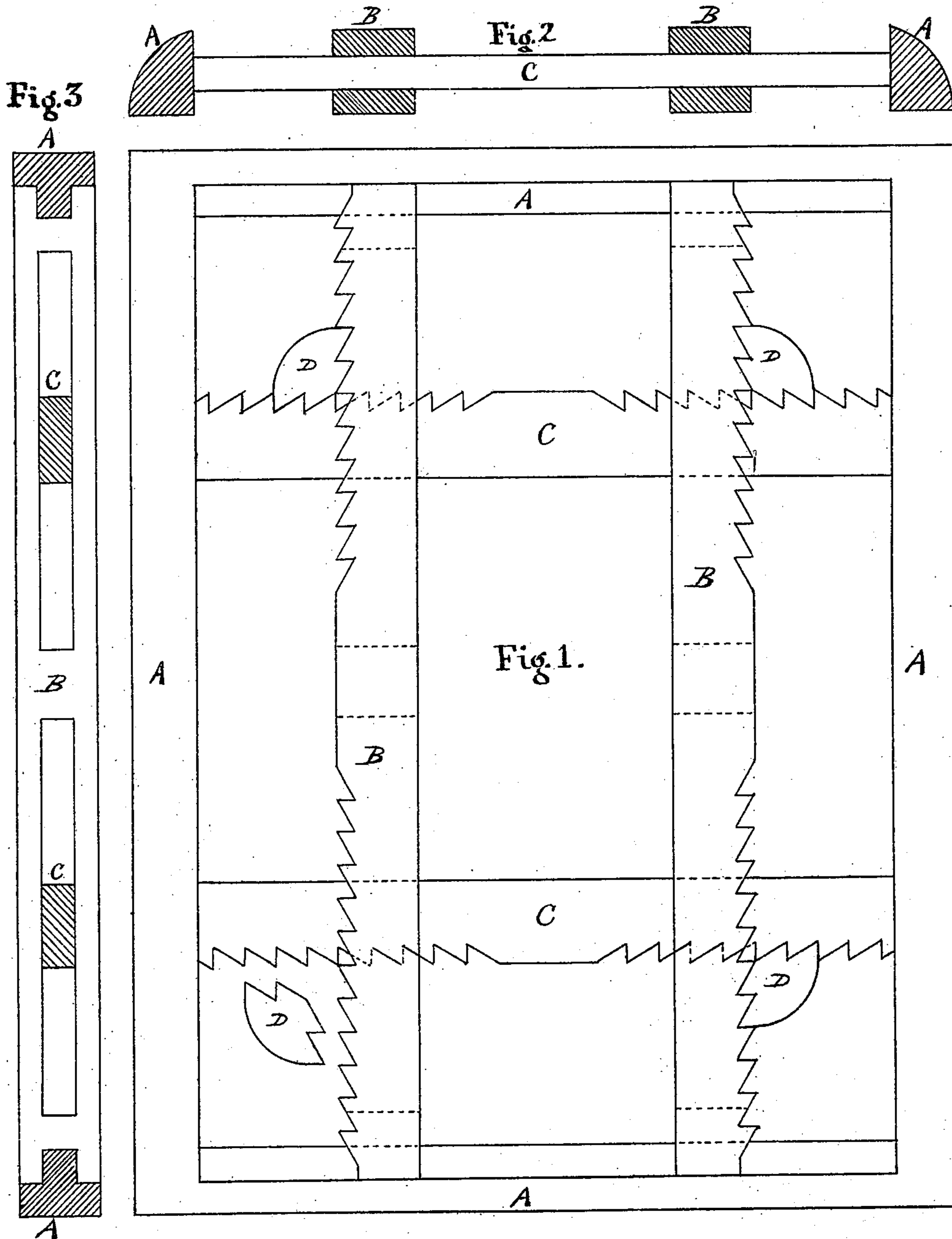


J. KINGSLAND, Jr.  
Printer's Chase.

No. 228,201.

Patented June 1, 1880.



Witnesses.

H. B. Hall.  
Earle Marks.

Inventor.  
Joseph Kingsland Jr.

# UNITED STATES PATENT OFFICE.

JOSEPH KINGSLAND, JR., OF FRANKLIN, NEW JERSEY.

## PRINTER'S CHASE.

SPECIFICATION forming part of Letters Patent No. 228,201, dated June 1, 1880.

Application filed February 24, 1880.

*To all whom it may concern:*

Be it known that I, JOSEPH KINGSLAND, Jr., of Franklin, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Printers' Chases, of which the following is a specification.

The invention relates to printers' chases.

The chase ordinarily used by printers consists of a strong iron frame, rectangular in shape, in which the pages of type are fixed or confined by means of strips of wood or metal called "furniture," and "locked up" or rigidly fastened in place by devices known as "quoins."

The object of my invention is to provide a simple chase capable of being readily adjusted to forms of type of various sizes, more especially the smaller forms in job printing, to do away, in part, with the use of furniture or the necessity for a number of chases of varied sizes.

The invention consists of a strong frame with movable parallel bars provided with teeth upon the backs or outer edges thereof, which bars may be rigidly fixed in any desired position by means of blocks having teeth thereon capable of engaging in those cut in the bars above mentioned.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is a plan of my chase, showing the general arrangement thereof. Fig. 2 is a vertical transverse section of the same, and Fig. 3 a vertical longitudinal section.

A A is the frame, and is similar in form, except the ribs or flanges, to that ordinarily in use in printing-offices, and is fastened on the bed-plate of a press in the same manner. The end pieces of the frame are similar to those parts of the ordinary chase, but somewhat lighter. The sides are very much lighter, and are provided with a rib or flange (shown in the accompanying drawings) upon the inner edges thereof, extending the entire length of the side pieces.

The chase proper consists of the slotted par-

allel bars B B, extending longitudinally across the frame, their ends being so grooved as to admit of their sliding freely upon the ribs or flanges on the sides of the frame, and retained thereby in position in the frame A A, the transverse parallel bars C C extending across the frame from one end piece to the other and at right angles to the bars B B, which are so slotted as to permit the free movement or passage in such slots of the bars C C.

The outer edges or backs of the bars B B and C C are provided with teeth corresponding to the teeth on the blocks D D D D, so that when a form of type is arranged in the rectangular space formed by said bars, and the toothed blocks D D D D are placed in their proper positions in the outer angles formed by the intersection of the bars C C and B B, the pressure on said sliding bars caused by locking up the form fixes the blocks D D D D rigidly in their places during the continuance of said pressure.

The operation of the device is as follows: A page of type is set up and placed in the chase in the ordinary manner. The parallel bars C C and B B are moved up mechanically, so as to firmly inclose the form, and the blocks D D D D are pressed into the outer angles formed by the intersection of the bars C C and B B, so that the teeth cut in the blocks shall engage with those upon the bars, thus rigidly fixing the type in position.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination and arrangement above described of the adjustable parallel bars B B and C C, provided with teeth on the backs thereof, and capable of being fixed in position by means of blocks provided with similar teeth engaging with the teeth cut upon said bars, substantially as and for the purposes described.

JOSEPH KINGSLAND, JR.

Witnesses:

G. BARRY WALL,  
EARLE MARKS.