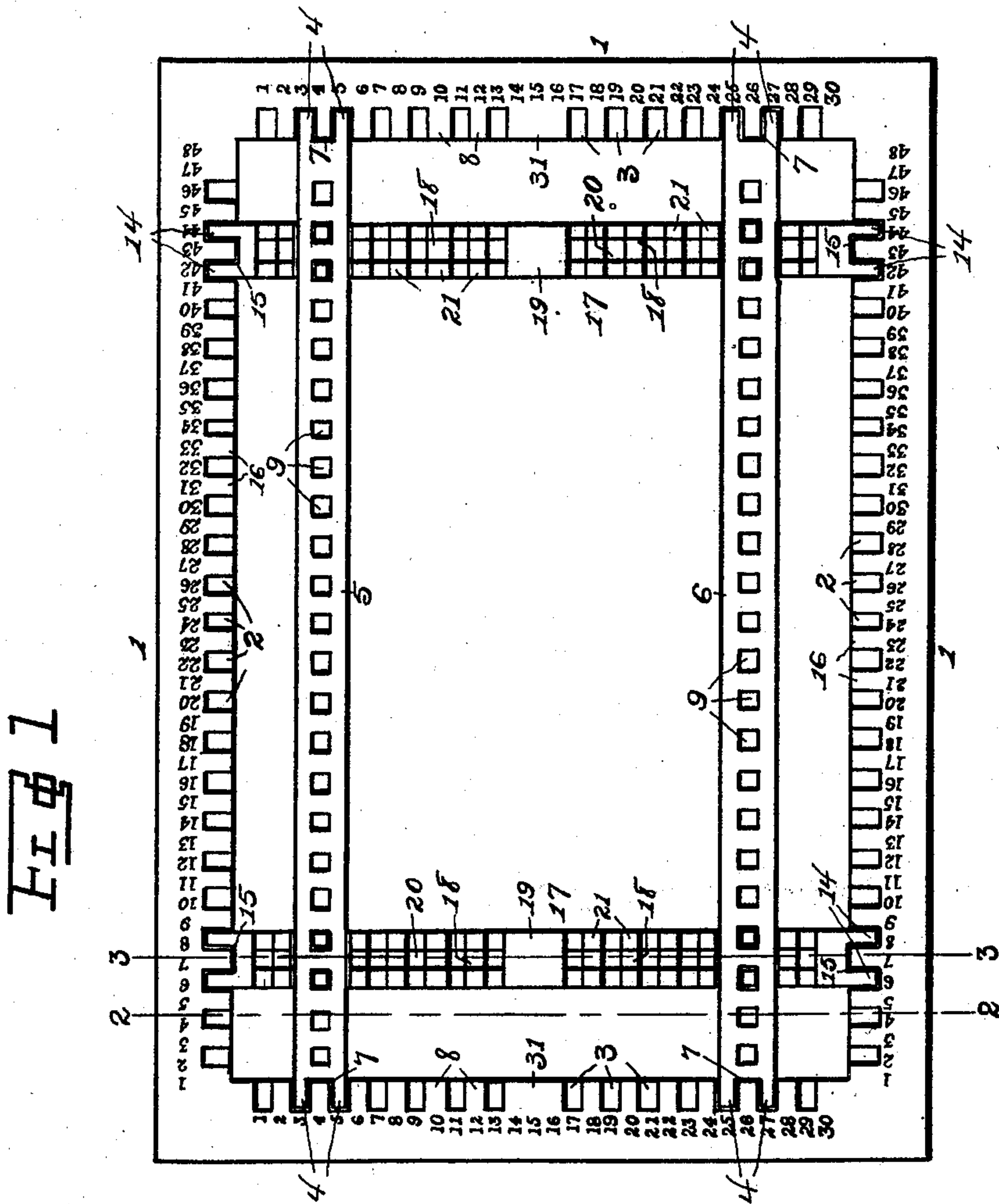


No. 812,425.

PATENTED FEB. 13, 1906.

O. HOWARD.
BOOK AND JOB CHASE.
APPLICATION FILED APR. 8, 1905.

2 SHEETS—SHEET 1.



Witnesses:

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2 SHEETS—SHEET 2.

FIG 2

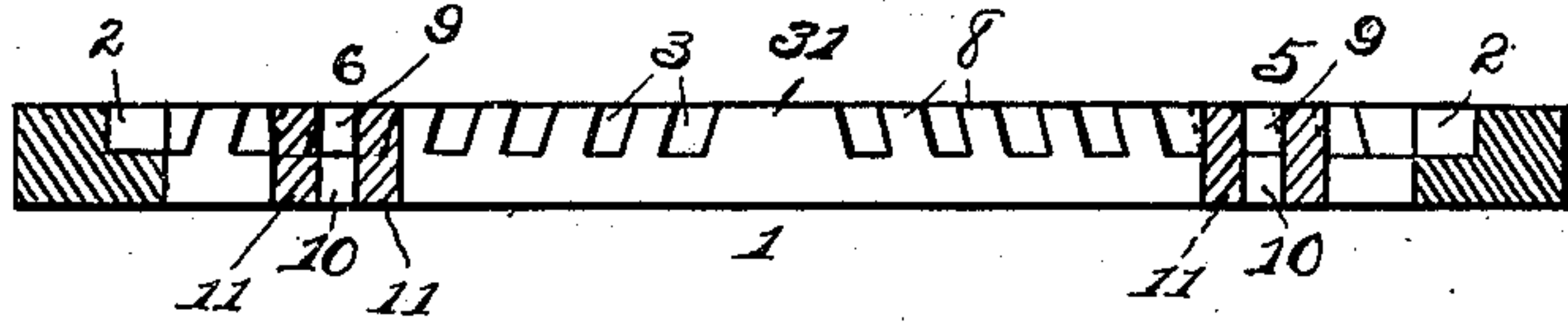


FIG 3

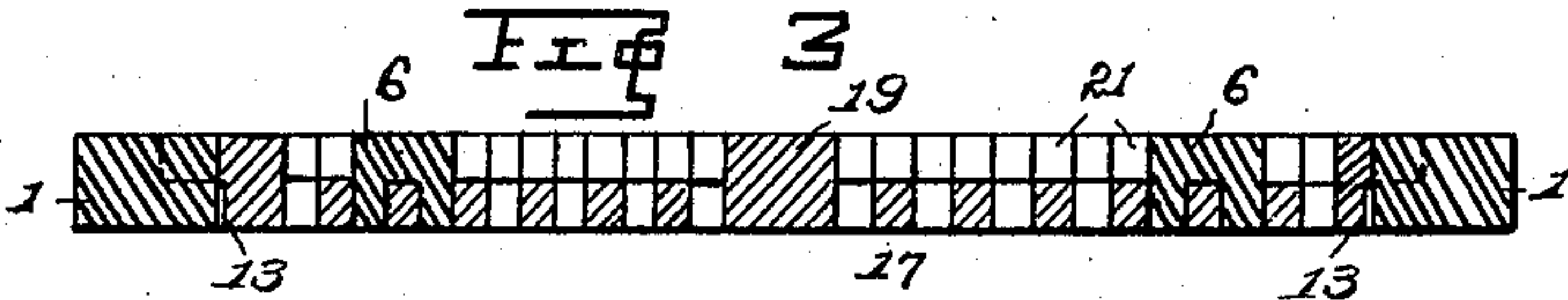


FIG 4

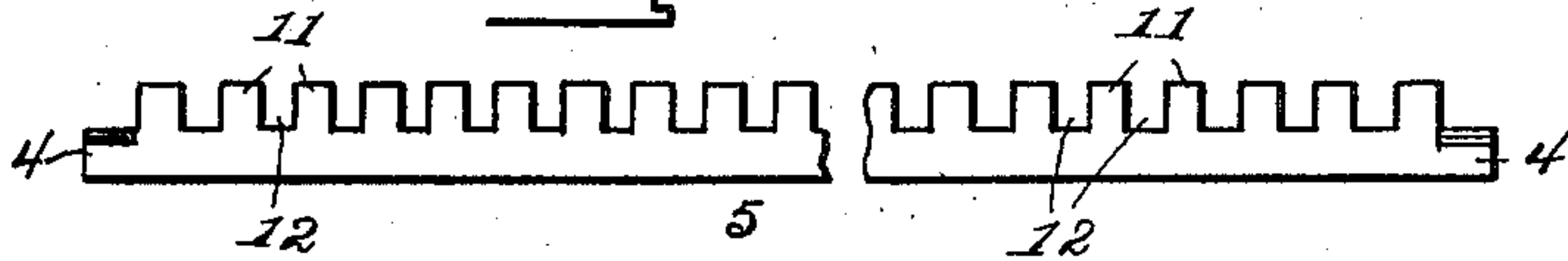
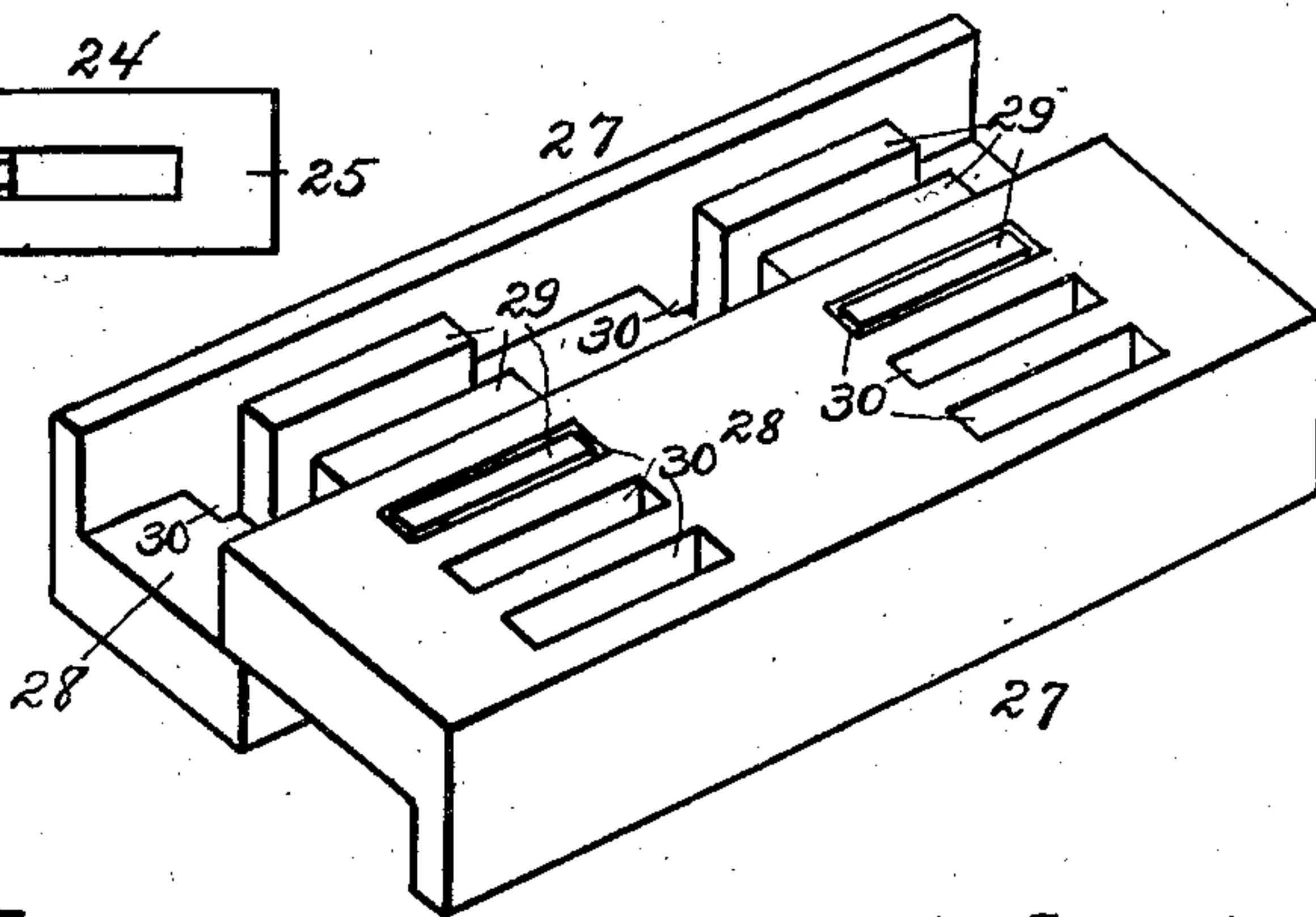
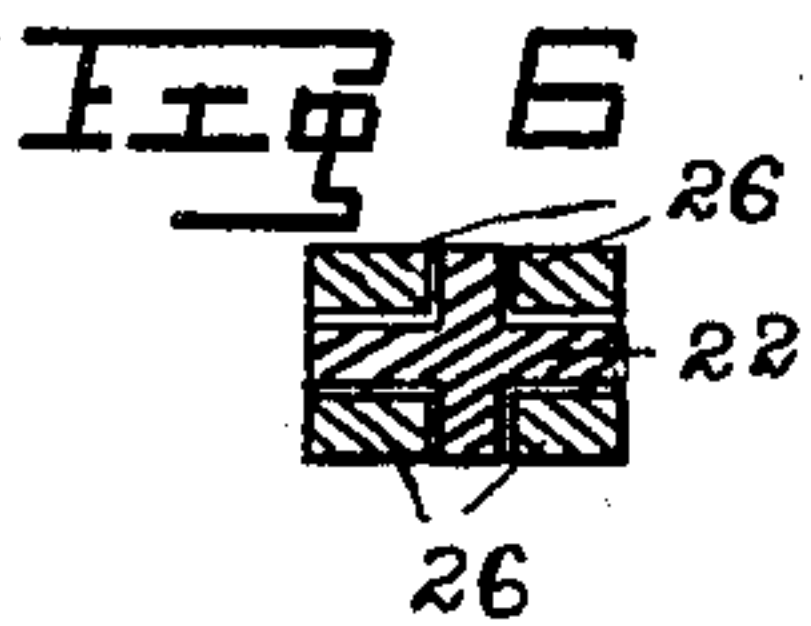
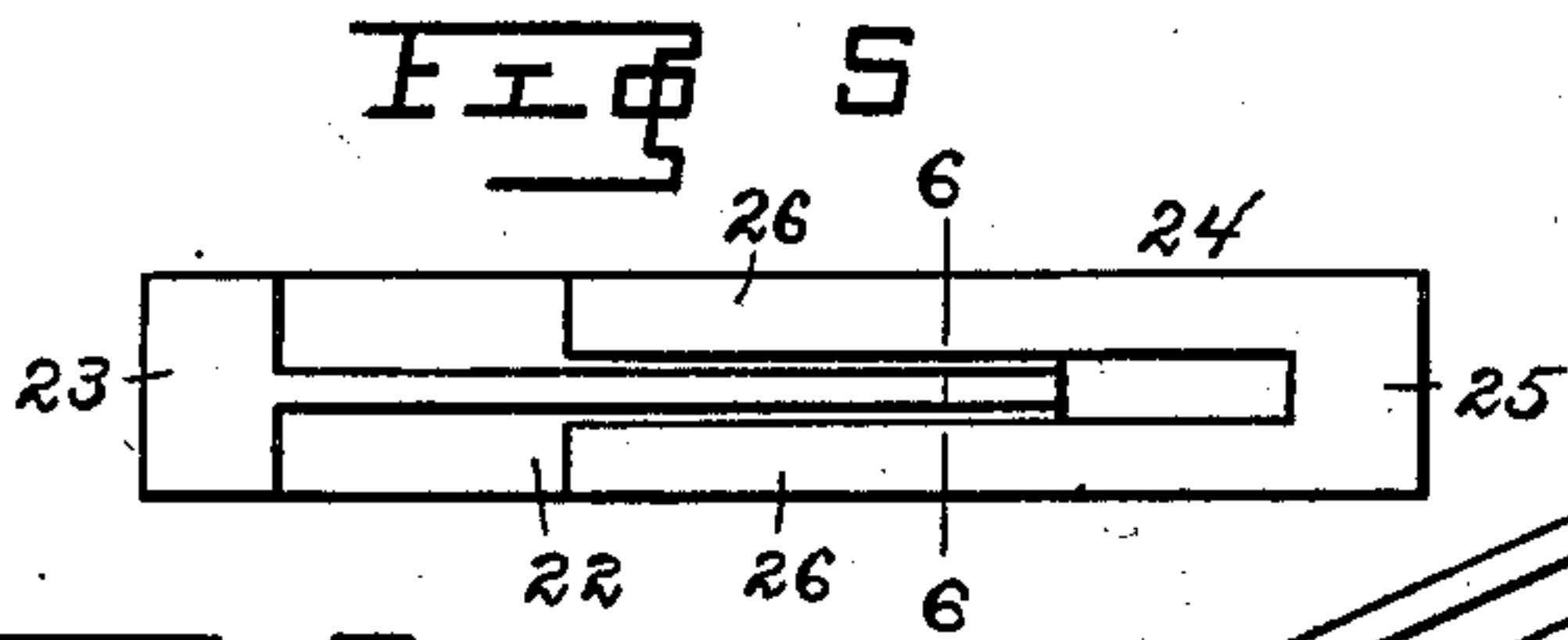


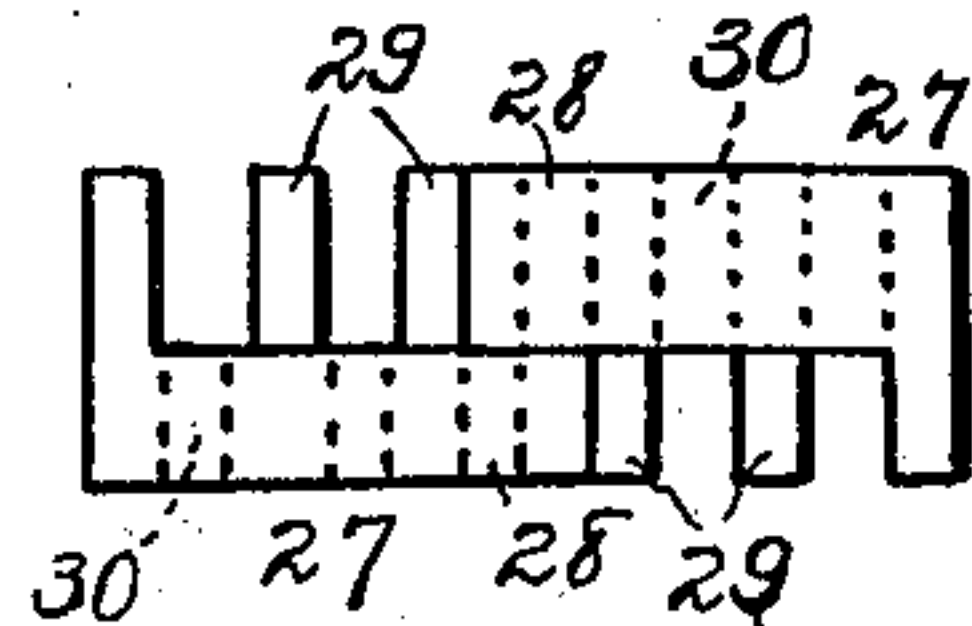
FIG 1



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FIG 8



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UNITED STATES PATENT OFFICE.

OSCAR HOWARD, OF WHEELING, WEST VIRGINIA, ASSIGNOR OF ONE-HALF TO RICHARD ROBERTSON, OF WHEELING, WEST VIRGINIA.

BOOK AND JOB CHASE.

No. 812,425.

Specification of Letters Patent.

Patented Feb. 13, 1906.

Application filed April 8, 1905. Serial No. 254,480.

To all whom it may concern:

Be it known that I, OSCAR HOWARD, a citizen of the United States of America, and a resident of Wheeling, county of Ohio, and State of West Virginia, have invented certain new and useful Improvements in Book and Job Chases, of which the following is a specification.

My invention relates to new and useful improvements in book and job chases, and more particularly to a novel construction of printers' chases and furniture therefor; and it consists in the particular construction, arrangement, and combination of parts, which will hereinafter be fully described.

The chief object of the invention is to provide a printer's book and job chase and furniture therefor which may be quickly and conveniently adjusted in position to lock a form in place therein.

A further object is to provide a device of the character mentioned having means whereby a form of any size may be locked in place without the use of the multiplicity of pieces or slips of furniture ordinarily required for the purpose.

Other objects of the invention will be made apparent as further progress is made with this specification.

In describing the invention in detail reference is herein had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a top plan view of the invention. Fig. 2 is a cross-section of the same on the line 2 2, Fig. 1. Fig. 3 is a cross section of the same on the line 3 3, Fig. 1. Fig. 4 is a side elevation of one of the adjustable sticks. Fig. 5 is a side elevation of an extensible piece of furniture. Fig. 6 is a cross-section of the same on the line 6 6. Fig. 7 is a perspective view of an expansible piece of furniture, and Fig. 8 is an end view of the same.

Referring to said drawings, in which like reference-numerals designate like parts throughout the several views, 1 indicates a rectangular frame or chase having provided along the inner edges of its sides spaced notches or recesses 2 and along the inner edges of its ends spaced notches or recesses 3, said notches or recesses being substantially half the thickness of the chase in depth. Having their ends provided with projections 4 for engaging said recesses 3 is a top stick 5 and a foot-stick 6, both of which

reach from one end of the chase to the other. Said projections 4 are separated by recesses 7 in said ends for engaging the dividing-walls 8 between said recesses 3. Extending from one end to the other in both said top stick 5 and said foot-stick 6 is a series of spaced perforations 9, which, on the under side of each of said sticks, open into a longitudinal channel 10, provided therein. At each side of said channel 10 is a longitudinal row of spaced vertical studs 11, separated by recesses 12, having their ends provided with bearing-faces 13 for fitting closely against the inner edges of the sides of the chase 1 and provided with projections 14 for engaging the recesses 2 in said slides, said projections being separated by recesses 15 for engaging the dividing-walls 16 between said recesses 2, are end sticks 17. Extending longitudinally along the upper face of each of said end sticks are two channels 18, separated intermediate the ends of each stick by a wall 19. Spaced perforations 20 open into said channels from the under sides of said end sticks. Said perforations are adapted to be engaged by the studs 11 on the under sides of the top stick and foot-stick. A row of spaced vertical studs 21 is provided on each side of said channels 18, which studs are adapted to engage the perforations 9 in said top and foot sticks. As is obvious, said top stick, foot-stick, and end sticks are all adjusted with relation to the size of the form to be embraced thereby, and the various studs, perforations, projections, and recesses serve to provide interlocking means for said sticks when adjusted to any position in the chase. Having adjusted said sticks with relation to the size of the form to be embraced, I employ extensible and expansible pieces of furniture to fit about the edge of the form and against said sticks, using the ordinary quoins between said pieces of furniture to lock the form firmly in place.

The extensible pieces, as shown in Figs. 5 and 6, each comprise a substantially cross-shaped stem 22, having a head 23, and a slip 24, consisting of a head 25, having four integral rectangular parallel prongs or fingers 26 for embracing and sliding against the arms of said cross-shaped stem 22. As is obvious, said extensible pieces may be extended in length to fit any size of form.

The expansible pieces, as shown in Figs. 7

and 8, comprise two like members 27. Said members are each substantially L-shaped and are adapted for overlapping, as shown. On the engaging faces of the overlapping portions 28 at each end are two or more spaced vertical tongues 29, and between said tongues are slots 30, the tongues in one being adapted to engage the slots in the other, and thus to interlock. In using said expansible pieces the members thereof are adjusted to suit the width of space to be filled.

The expansible pieces are arranged about the form close against the top, foot, and end sticks, and the extensible pieces are arranged in like manner against the edges of the form. The ordinary quoins are then inserted between said expansible pieces and said extensible pieces and are keyed up in the usual manner to lock the form.

Intermediate the ends of the end portions of the chase is a substantially V-shaped wall 31, the apex of said wall pointing upward, as shown. The recesses 3 and walls 8 at each side of said wall 31 are inclined substantially parallel to the sides of said wall 31, thus providing means for holding the top stick and foot-stick firmly in place when subjected to form-locking pressure.

Provided along the upper faces of the sides and ends of the chase is a numbered scale by the use of which the size of extensible pieces of furniture required for any form may be readily determined and the work of adjustment facilitated.

From the foregoing it will be seen that I provide an extremely simple and comparatively inexpensive device of the character described.

I have described the invention in what I consider to be its simplest form; but it is obvious that various slight alterations may be made in the construction and arrangement of some of the parts without departing from the general spirit or scope of the invention. Hence I do not desire to limit myself to the precise construction and arrangement herein shown and described.

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

1. In a device of the character described, a chase having a plurality of spaced recesses along the inner edges of its sides and ends, the recesses in the ends being inwardly inclined at opposite sides of a point intermediate the extremities thereof, a top stick and a

foot-stick extending from one end of said chase to the other, the ends of said sticks provided with projections for interlocking engagement with said inclined recesses, end sticks extending from one side of said chase to the other and having their ends provided with projections for interlocking engagement with the recesses in said sides, spaced perforations in all of said sticks, and spaced studs carried by the engaging faces of said sticks, the studs on the end sticks being adapted for interlocking engagement with the perforations in the top stick and the foot-stick, and vice versa.

2. In a device of the character described, a chase having a plurality of spaced recesses along the inner edges thereof, a top stick, a foot-stick and end sticks, all said sticks having ends adapted for interlocking engagement with the recesses in said chase, said top stick and foot-stick each provided with a longitudinal channel in its under face, spaced perforations opening into said channels from the upper faces of said sticks, a longitudinal row of spaced vertical studs carried by each of the last-mentioned sticks at each side of the channel therein, each of said end sticks provided with a channel in its upper face, spaced perforations opening into said channels from the under faces of said end sticks, and a row of spaced vertical studs carried by each of said end sticks at each side of the channel therein, all of said sticks being adapted to be adjusted with relation to the size of the form to be embraced thereby with studs of the top stick and foot-stick in engagement with perforations in said end sticks, and vice versa.

3. In a printer's chase, the combination with a frame provided with spaced recesses in its inner edge, of a top stick, foot-stick and two end sticks having projections in their ends for engaging the recesses in the frame, said sticks provided on their opposing faces with alternating spaced recesses and studs, the recesses and studs carried by the top stick and the foot-stick being adapted for interlocking engagement respectively with the studs and recesses carried by said end sticks, and vice versa.

Signed by me in the presence of two subscribing witnesses.

OSCAR HOWARD.

Witnesses:

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EARLE A. LEUKARD.