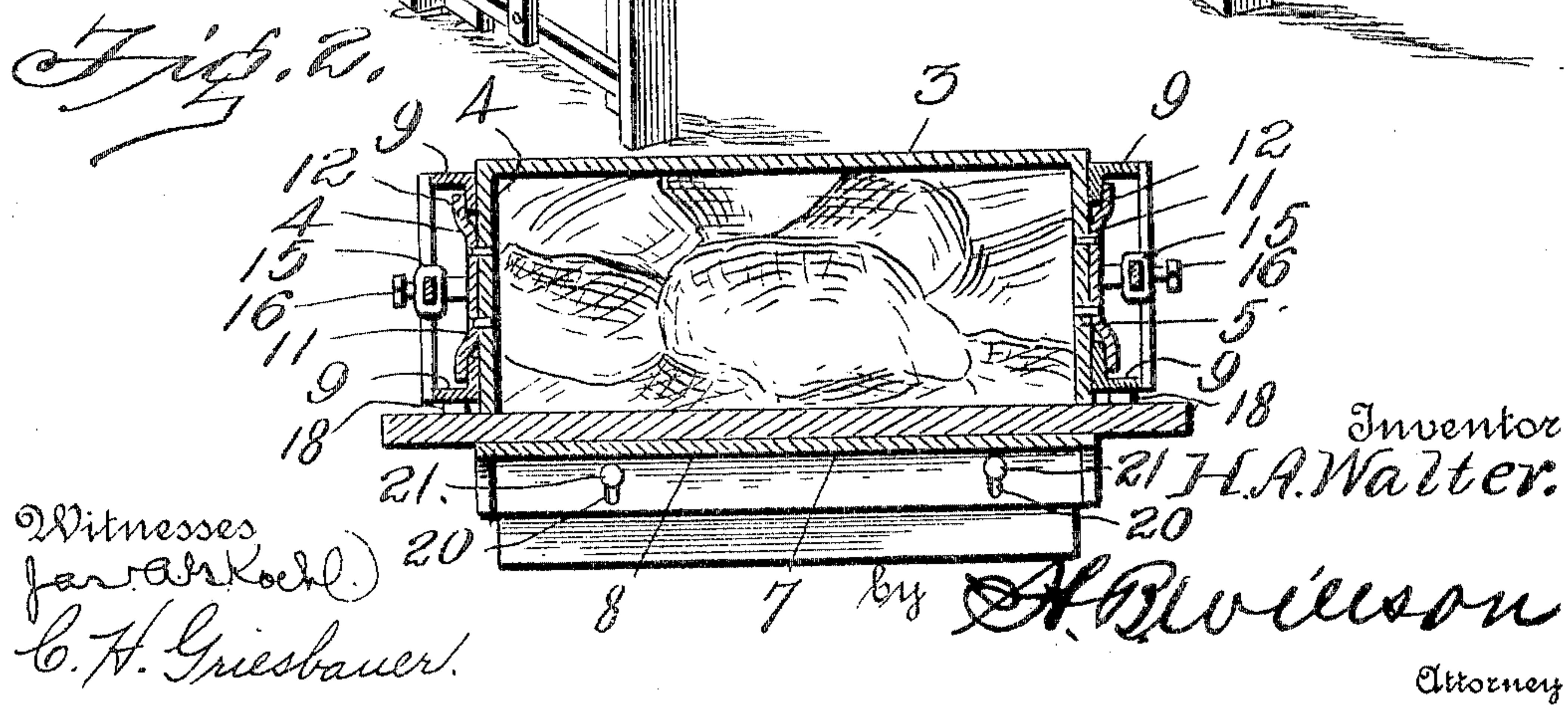
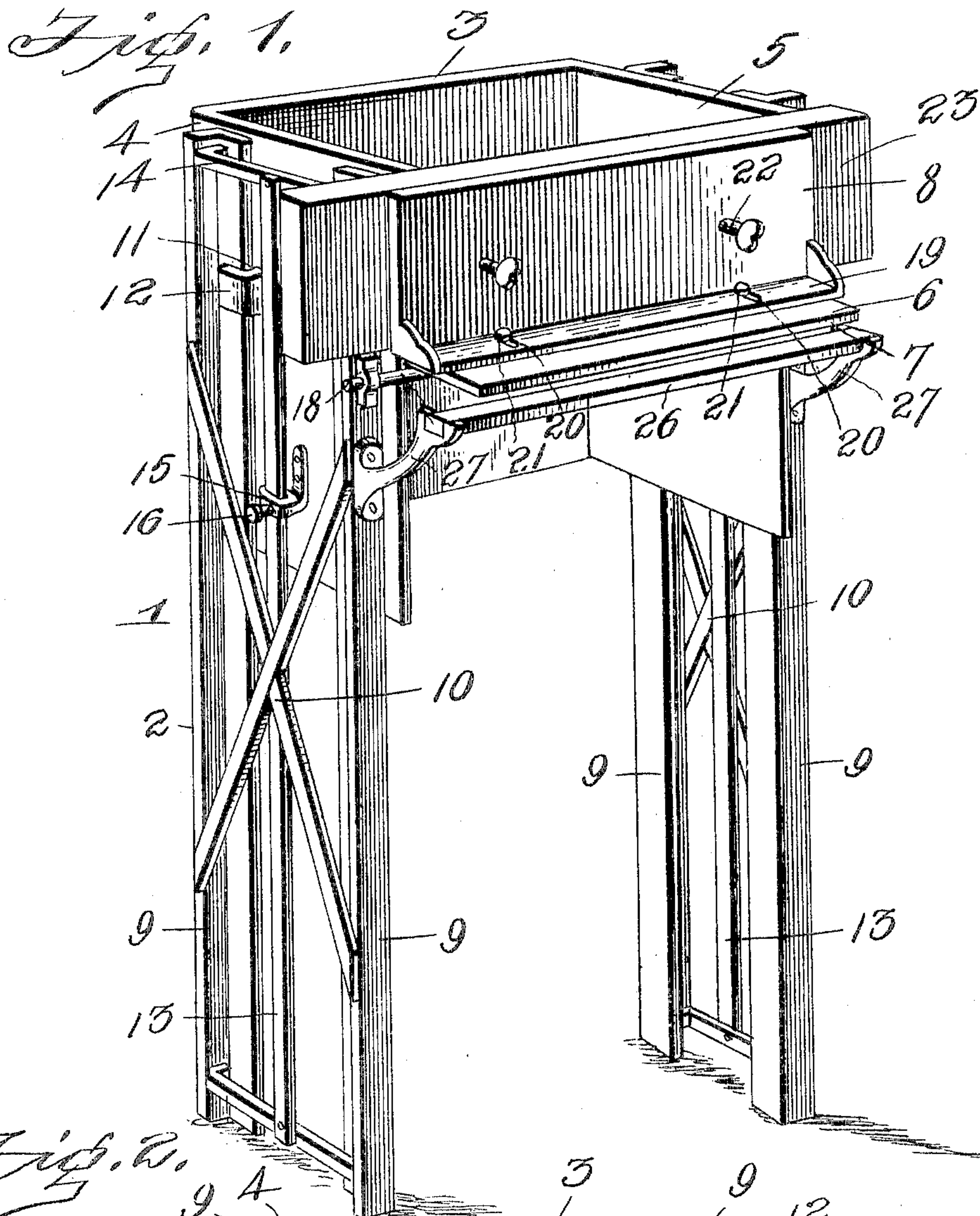


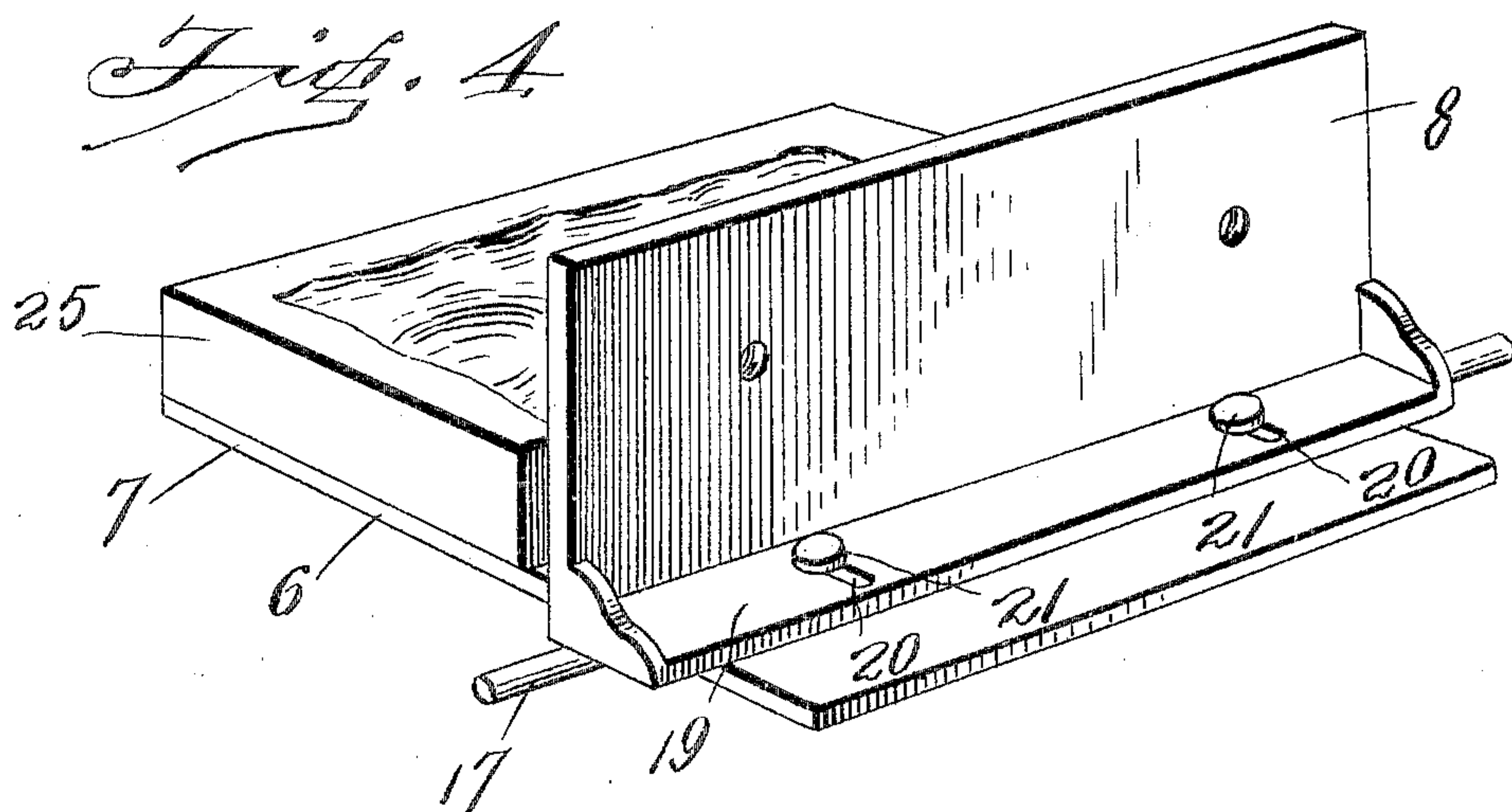
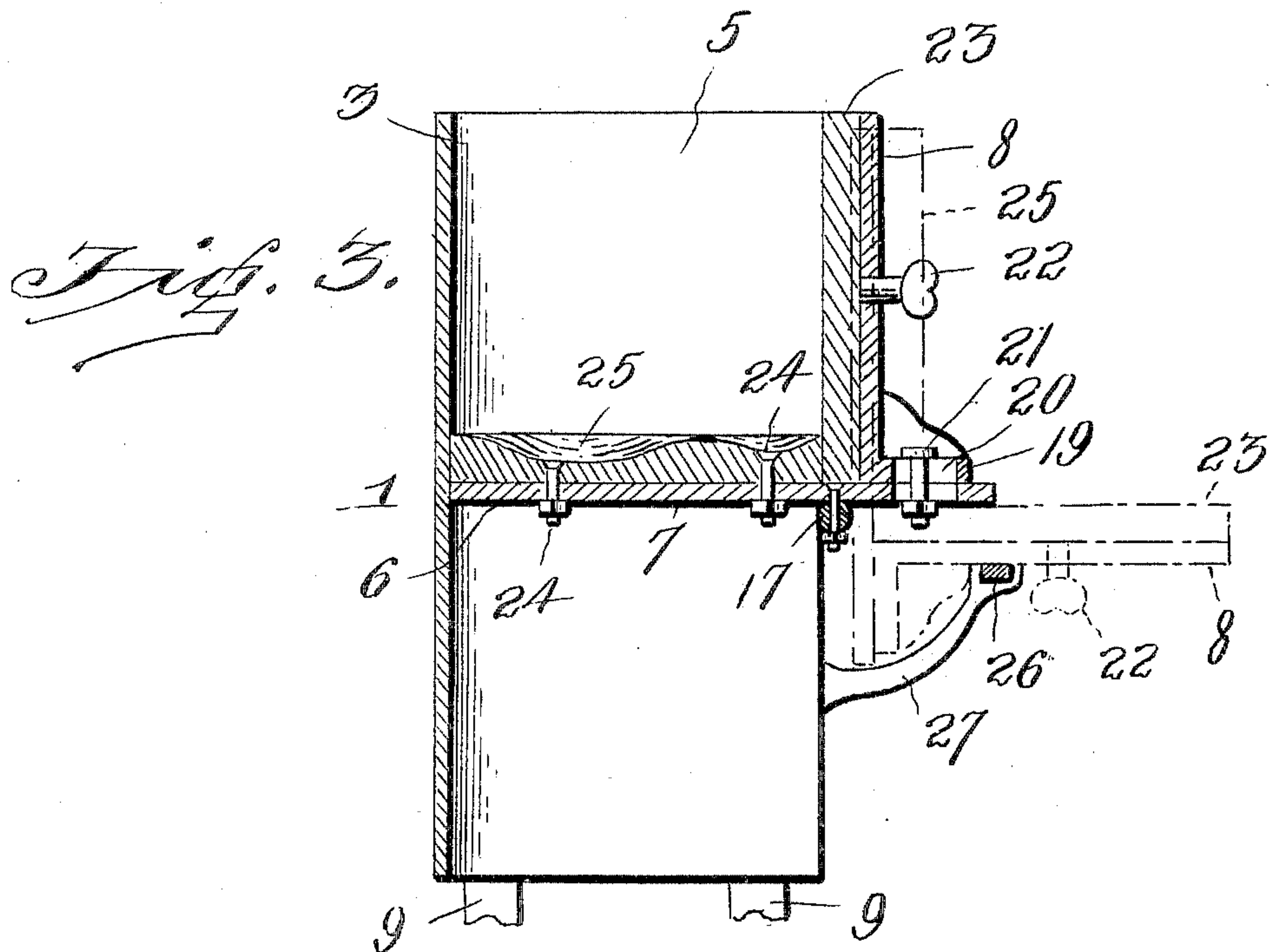
H. A. WALTER.  
MOLDING MACHINE.  
APPLICATION FILED MAR. 23, 1905.

2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.



Witnesses  
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Inventor  
H. A. Walter.

by *A. B. Wilson*  
Attorney



# UNITED STATES PATENT OFFICE.

HARRY A. WALTER, OF MARSHALL, MICHIGAN.

## MOLDING-MACHINE.

No. 804,643.

Specification of Letters Patent.

Patented Nov. 14, 1905.

Application filed March 23, 1905. Serial No. 251,641.

*To all whom it may concern:*

Be it known that I, HARRY A. WALTER, a citizen of the United States, residing at Marshall, in the county of Calhoun and State of Michigan, have invented certain new and useful Improvements in Molding-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in molds for making cement or artificial-stone building-blocks, bricks, and the like.

The object of the invention is to provide a simple, durable, and highly-efficient molding apparatus of this character which may be adjusted to form blocks of various sizes and from which the molded blocks may be quickly and easily removed.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of the molding-machine, the mold being in its closed position. Fig. 2 is a horizontal sectional view through the same. Fig. 3 is a vertical transverse sectional view showing in full lines the combined bottom and side mold-section tilted to its open position and in dotted lines the same in its closed position, and Fig. 4 is a detail view of the combined bottom and side swinging mold-section.

Referring to the drawings by numeral, 1 denotes a mold which consists of a suitable supporting-frame 2, upon which is mounted a slidable side section 3, two end sections 4 and 5, and a combined bottom and side section 6, which consists of a bottom 7 and a side 8. The frame 2 is preferably constructed of upright angle-iron bars or supporting-legs 9, which are braced, as shown at 10.

The side section 3 and the two end sections 5 are united and are so mounted that they may be adjusted vertically upon the frame 2 to permit blocks or bricks of different depths or thicknesses to be molded by the machine.

This vertical adjustment is effected by securing upon the outer faces of the end mold-sections 4 and 5 guide-plates 11, which have their bent ends 12 engaged with the angle-bars 9, so that said sections may slide vertically upon said bars. In order to secure said sections in an adjusted position, rods 13 are provided at

each end of the frame and have their upper ends secured to a cross-bar 14, which connects the upper ends of the angle-bars 9. These rods 13 project through openings formed in adjusting-brackets 15, which are secured upon the lower portions of the end sections 4 and 5 and slide upon said rods. Set-screws 16 are provided in brackets 15 for the purpose of securing them upon the rods 13, so as to hold the mold-sections 3, 4, and 5 in an adjusted position.

The bottom mold-section 7 is pivotally mounted by securing upon its under side a rod or shaft 17, which has its ends journaled in brackets 18, secured upon the angle-bars 9, at one side of the frame. The side mold-section 8 is slidably and adjustably secured upon the upper face of the bottom mold-section 7, adjacent to its outer end, by providing the lower end of the section 8 with a right-angularly projecting base 19. This base is formed with slots 20, which receive adjusting-screws 21, projecting through the bottom section 7. In the upper portion of the side mold-section 8 are provided set-screws 22, which are adapted to engage a removable plate or board 23, which is placed upon the inner face of said section 8 and in engagement with the end sections 4 and 5. These set-screws 22 permit the plate or board 23 to be held firmly in contact with the end sections 4 and 5; but it will be understood that any other suitable clamping or adjusting device may be substituted for the set-screws 22. Upon the upper face of the bottom mold-section 7 is removably secured, by screws or other suitable fastening means 24, a removable face-plate 25, which may contain a suitable design for the front side or face of the molded block or brick.

By mounting the bottom mold-sections 7 so as to permit the same to swing or tilt and by securing the side mold-section 8 thereto, as shown, it will be seen that the molded block or brick may be readily removed by simply swinging or tilting the combined mold-section 6 to its open position. (Shown in dotted lines in Fig. 3 of the drawings.) When in this position, the section 8 is supported horizontally upon a cross-bar 26, which is secured in brackets 27, provided upon the angle-bars 9 at one side of the frame. When the mold-section 6 is in its open position, it will be seen that the block may be readily removed without being handled by simply removing the plate or board 23.

The construction, operation, and advantages



of my invention will be readily understood from the foregoing description taken in connection with the accompanying drawings. It will be seen that by adjusting the side and end mold-sections 3, 4, and 5 vertically the height or depth of the block may be varied as desired and that by adjusting the side mold-section 8 upon the bottom section 7 the width of the block may be varied.

While I have shown and described the preferred embodiment of my invention, it will be understood that I do not wish to be limited to the precise construction herein set forth, since various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

1. In combination with a frame, a relatively fixed section forming the bottom and one side of the mold and supported by the frame, and a vertically-adjustable section having side and end members, said relatively fixed and vertically-adjustable sections coacting to form a mold.

2. A mold of the character described comprising a suitable frame, one side and two end mold-sections vertically slidable upon said frame, and a combined bottom and side mold-section mounted to swing upon said frame.

3. A mold of the character described com-

prising a suitable frame, one side and two end mold-sections adjustably mounted upon said frame, a bottom mold-section pivotally mounted upon said frame, and a side mold-section adjustably secured upon said bottom section.

4. A mold of the character described comprising a suitable frame, one side and two end mold-sections slidably mounted upon said frame, means for adjusting said sections, a bottom mold-section pivotally mounted upon said frame and a side mold-section slidably engaged with and adjustably secured to said bottom mold-section.

5. A mold of the character described comprising end mold-sections, a swinging bottom mold-section, a side mold-section upon said bottom section, and means upon said side section for holding a board or plate in engagement with said end sections.

6. A mold of the character described comprising a suitable frame, an adjustable mold-section, a guide upon said section slidably engaged with said frame, a rod secured to said frame, an adjusting-bracket secured upon said section and slidably engaged with said rod, and a set-screw for securing said bracket upon said rod.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HARRY A. WALTER.

Witnesses:

HARLEY J. CORTRIGHT,  
WILLIAM DOBBESTIEN.