

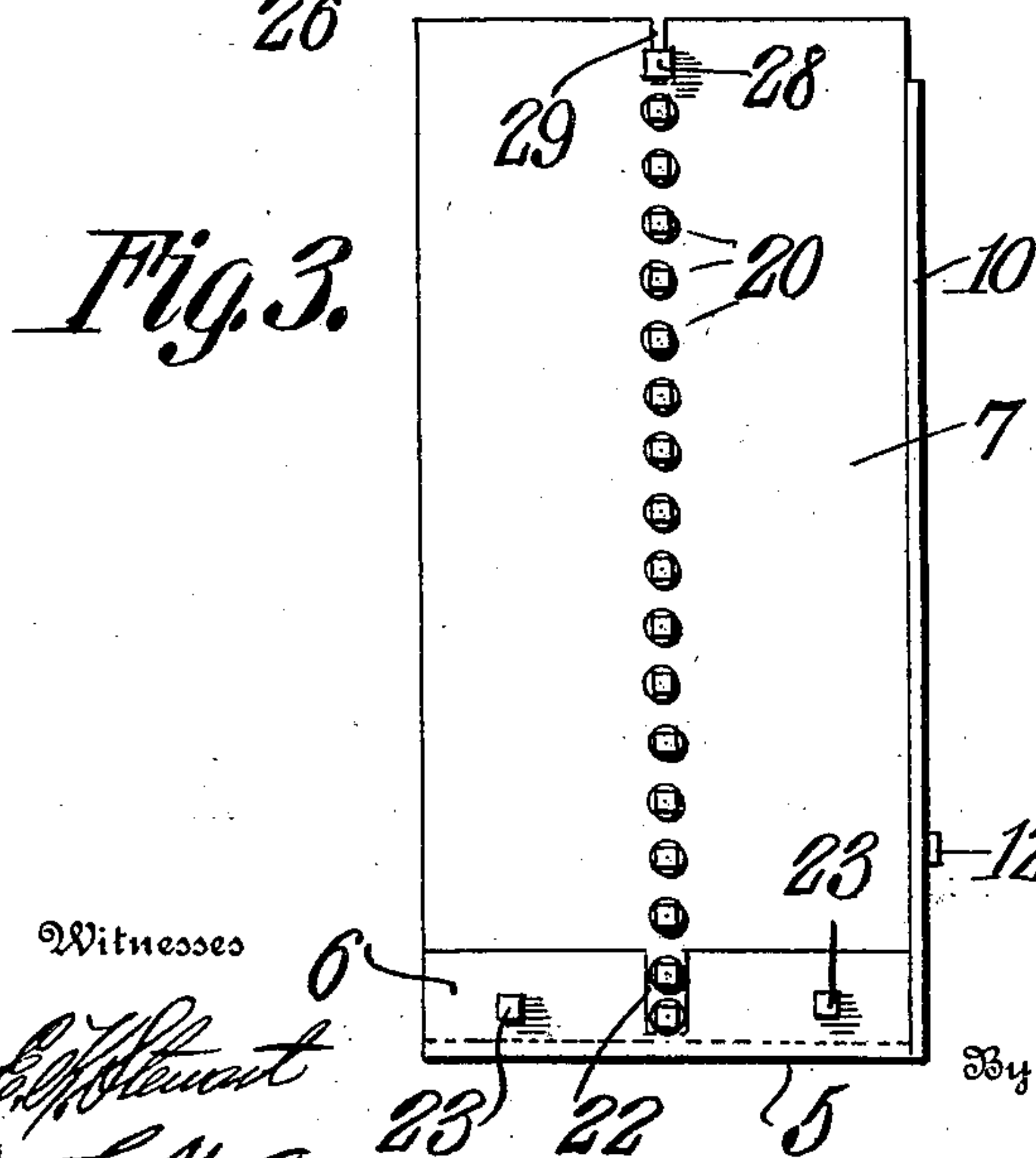
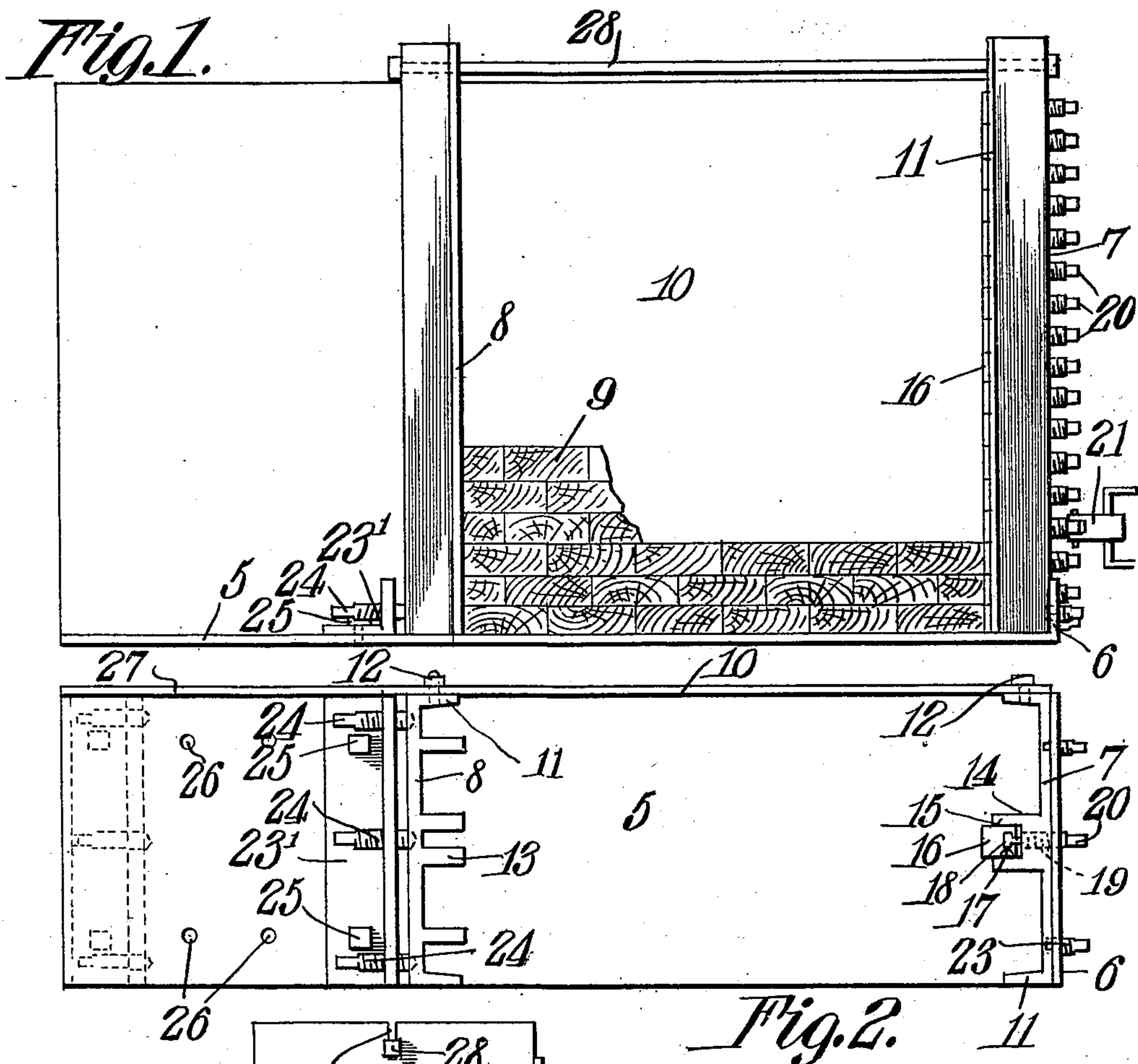
No. 886,373.

PATENTED MAY 5, 1908.

W. T. HUENING.

FORM FOR SETTING UP AND HOLDING SECTIONAL BLOCKS.

APPLICATION FILED, OCT. 5, 1907.



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UNITED STATES PATENT OFFICE.

WILLIAM T. HUENING, OF CHICAGO, ILLINOIS.

FORM FOR SETTING UP AND HOLDING SECTIONAL BLOCKS.

No. 886,373.

Specification of Letters Patent.

Patented May 5, 1908.

Application filed October 5, 1907. Serial No. 396,080.

To all whom it may concern:

Be it known that I, WILLIAM T. HUENING, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Form for Setting Up and Holding Sectional Blocks, of which the following is a specification.

This invention relates to the manufacture of sectional blocks such as cutting boards, dying-out blocks and the like, and more particularly to an improved press or form for setting up and holding the block during the gluing operation.

Heretofore in the manufacture of sectional blocks the strips of stock constituting the block were united along their edges by gluing the same to form the several layers or sections, which sections are subsequently arranged in superposed courses and glued together by exerting a downward pressure on the same thus rendering two separate gluing operations necessary to the formation of a complete block.

The primary object of the present invention is to reduce the time and labor incident to the manufacture of sectional blocks by constructing a press or form in which the strips of stock in each layer or section may be glued together and said layers or sections firmly united at one operation of the form or press.

A further object of the invention is to provide means for exerting a lateral pressure on the individual layers of stock constituting the block, and means for adjusting the end walls of the press to permit the formation of blocks of different sizes.

A still further object of the invention is to generally improve this class of devices so as to increase their utility, durability and efficiency.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings forming a part of this specification: Figure 1 is a side elevation of a form or setting up device constructed in accordance with my invention, some of the superposed strips of stock constituting the block being shown in position in the press. Fig. 2 is a top plan view with the stock removed. Fig. 3 is an end elevation of the same.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

The improved device forming the subject matter of the present invention includes a base plate 5 having one end thereof bent upwardly to form an angular extension 6 which forms an abutment for the adjacent end wall 7.

The end wall 8 is spaced from the end wall 7 to form an intermediate chamber or compartment for the reception of the several strips of stock 9 constituting the sectional block, said strips being arranged in superposed order with their rear ends bearing against the side plate 10.

The end walls 7 and 8 are provided with terminal angularly disposed flanges 11 to one of each of which is secured by a bolt or similar fastening device 12 the side wall 10, thereby to rigidly combine the side and end walls and permit the same to be lifted bodily from the bed plate 5, as will be more fully explained hereinafter.

The end wall 8 is provided with a plurality of intermediate vertically disposed strengthening ribs 13 adapted to bear against the longitudinal edges of the adjacent strips of stock while the intermediate portion of the end wall 7 is formed with a central enlargement 14 having a groove 15 extending vertically thereof for the reception of a plurality of spaced clamping blocks 16. Each block 16 is provided with a T-shaped slot 17 in which is seated the correspondingly shaped head 18 of a screw 19, the latter being extended through the adjacent end wall 7 and provided with an angular head 20 for engagement with a wrench or other suitable tool, indicated at 21.

The clamping blocks 16 are disposed in alinement with and adapted to bear against the several layers of stock so that a lateral pressure may be exerted on the individual layers and thus effect the union of the strips comprising each layer.

The extension 6 is formed with a vertically disposed slot 22 to accommodate the squared terminals of the adjacent screws 19 so that the latter may be actuated to clamp the stock during the gluing operation. Disposed on each side of the slot 22 are clamping screws 23 which bear against the adjacent end wall 7 and serve to secure said end wall in position on the base.

Spaced from the end wall 8 is a transverse bracket 23' preferably formed of angle iron

and provided with one or more perforations in which are threaded screws 24 for securing the adjacent end wall 8 in engagement with the base. The bracket 23' is adjustable longitudinally of the base 5 and is locked in adjusted position on said base by means of bolts or similar fastening devices 25 which extend through the bracket and engage suitable openings or perforations 26 formed in said base, as shown. It will thus be seen that by adjusting the bracket 23' longitudinally of the base and inserting the bolts 25 through the adjacent perforation 26 the form may be lengthened or shortened to permit the formation of sectional blocks of different sizes. It will of course be understood that the end wall 8 will also be adjusted longitudinally of the base, there being one or more openings 27 formed in the side plate 10 for the reception of the fastening device 12.

The upper ends of the end walls 7 and 8 are maintained in spaced relation by means of a clamping rod 28 the end of which passes through a perforation in the end wall 8 while the opposite end of the rod is inserted in a slot 29 opening through the top of the end wall 7, as shown.

In forming a sectional block the several strips of stock comprising the lower layer or section are placed in position on the bed plate with glue or other adhesive material interposed between their adjacent longitudinal edges, after which adhesive material is placed on the upper faces of the strips and the succeeding layers or sections are arranged in superposed order with the inner ends of the stock bearing against the side wall 10. The members 16 are then adjusted and the form placed in hydraulic or other suitable press, after which the clamping members are tightened and the block subjected to a downward pressure thus causing the strips of the individual layers to firmly adhere to each other and also to the strips of the preceding and succeeding layers or sections.

While the block is being subjected to hydraulic or other pressure the form is detached from the sectional block, this being accomplished by first releasing the clamping members 16 from engagement with the block by rotating the screws 19 with the wrench or tool 21 and subsequently removing the rod 28 and releasing the screws 23 and 24 thus permitting the end wall carrying the clamping members or blocks together with the opposite end wall and member 10 to be disengaged from the block and lifted bodily from the bed plate, it being of course understood that a new bed plate will be used for making each block. It will thus be seen that if several bed plates are provided the same side and end walls may be used over and over again thereby permitting a continuous operation of the device.

Attention is here called to the fact that the side wall 10 not only serves to prevent accidental displacement of the stock but also forms an abutment for the stock so that the ends of the latter may be maintained in perfect alinement.

By forming the block in the manner described the horizontal joints of the stock are thoroughly knit with the vertical joints while the material is in its original heated state, thus congealing the stock in a solid mass or block at each operation of the form and effectually preventing the opening of the joints.

From the foregoing description it is thought that the construction and operation of the device will be readily understood by those skilled in the art and further description thereof is deemed unnecessary.

Having thus described the invention what is claimed is:

1. A form for making sectional blocks including a base, end walls mounted on the base and forming a chamber for the reception of the stock, and means carried by one of the end walls for exerting a lateral pressure on the individual layers of stock.

2. A form for making sectional blocks including a base, end walls carried by the base and forming a chamber for the reception of the stock, and clamping devices carried by one of the end walls and adapted to bear against the individual layers of stock.

3. A form for making sectional blocks including a base, end walls detachably secured to the base and forming an intermediate chamber for the reception of the stock, a side wall connecting the end walls and forming an abutment, and means carried by one of the end walls for exerting a lateral pressure on the individual layers of stock.

4. A form for making sectional blocks including a base, end walls mounted on the base, and forming an intermediate chamber for the reception of the stock, a side wall connecting the end walls, a plurality of superposed clamping devices carried by one of the end walls for exerting a lateral pressure on the individual layers of stock, and means for detachably securing the side and end walls in position on the base.

5. A form for making sectional blocks including a base, end walls mounted on the base and forming an intermediate chamber for the reception of the stock, a rod connecting the upper ends of the end walls, a side wall connecting the end walls, fastening devices carried by the base and engaging the end walls for detachably securing the end walls in position on the base, and longitudinally adjustable clamping devices carried by one of the end walls and adapted to bear against the individual layers of stock for exerting a lateral pressure on said stock.

6. A form for making sectional blocks in-

cluding a base, end walls detachably secured to the base and forming an intermediate chamber for the reception of the stock, and longitudinally adjustable clamping members 5 carried by one of the end walls and each having one end thereof extended through said end wall and provided with a terminal tool engaging head.

7. A form for making sectional blocks including a base, end walls detachably secured to the base and forming an intermediate compartment for the reception of the stock, a side wall connecting the end wall, one of said end walls being provided with an intermediate enlargement having a vertically disposed groove formed therein, and longitudinally adjustable blocks slidably mounted in said grooves and each provided with a threaded shank extending through said end 15 wall and terminating in a tool engaging head.

8. A form for making sectional blocks including a base having one end thereof provided with an angular extension, an end wall mounted on the base and bearing against 25 said extension, a bracket adjustable longitudinally of the bed plate, an end wall mounted on the base adjacent the bracket, a plurality of superposed longitudinally adjustable clamping devices carried by one of 30 the end walls, and clamping screws secured to the bracket and extension, respectively and bearing against the adjacent end walls for detachably securing the same in position on the base.

9. A form for making sectional blocks including a base having one end thereof provided with an angular extension and its opposite end formed with a plurality of spaced perforations, a bracket extending transversely 40 of the base, end walls engaging the bracket and extension, respectively, and forming an

intermediate chamber for the reception of the stock, a side wall connecting the end walls, one of said end walls being formed with an aperture and the other wall with a vertically 45 disposed slot, a clamping rod passing through the aperture and engaging the slot, fastening devices carried by the extension and bracket, respectively, and bearing against the end walls for detachably securing said end walls 50 to the base, an enlargement formed on one of the end walls and provided with a vertically disposed groove, a plurality of superposed longitudinally adjustable blocks mounted in said grooves and each provided 55 with a threaded shank extending through the adjacent end wall and terminating in a tool engaging head, said blocks being adjustable to exert a lateral pressure on the individual layers of stock. 60

10. A form for making sectional blocks including a base, end walls detachably secured to the base and provided with oppositely disposed flanges one of said end walls being provided with an enlargement having a vertical 65 groove formed therein and the other end wall formed with a plurality of intermediate strengthening ribs, a side wall connecting the terminal flanges of the end walls, a clamping bar connecting the upper ends of 70 said end wall, and longitudinally adjustable clamping members seated in the slot of the enlargement and provided with terminal tool engaging heads.

In testimony that I claim the foregoing as 75 my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM T. HUENING.

Witnesses:

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