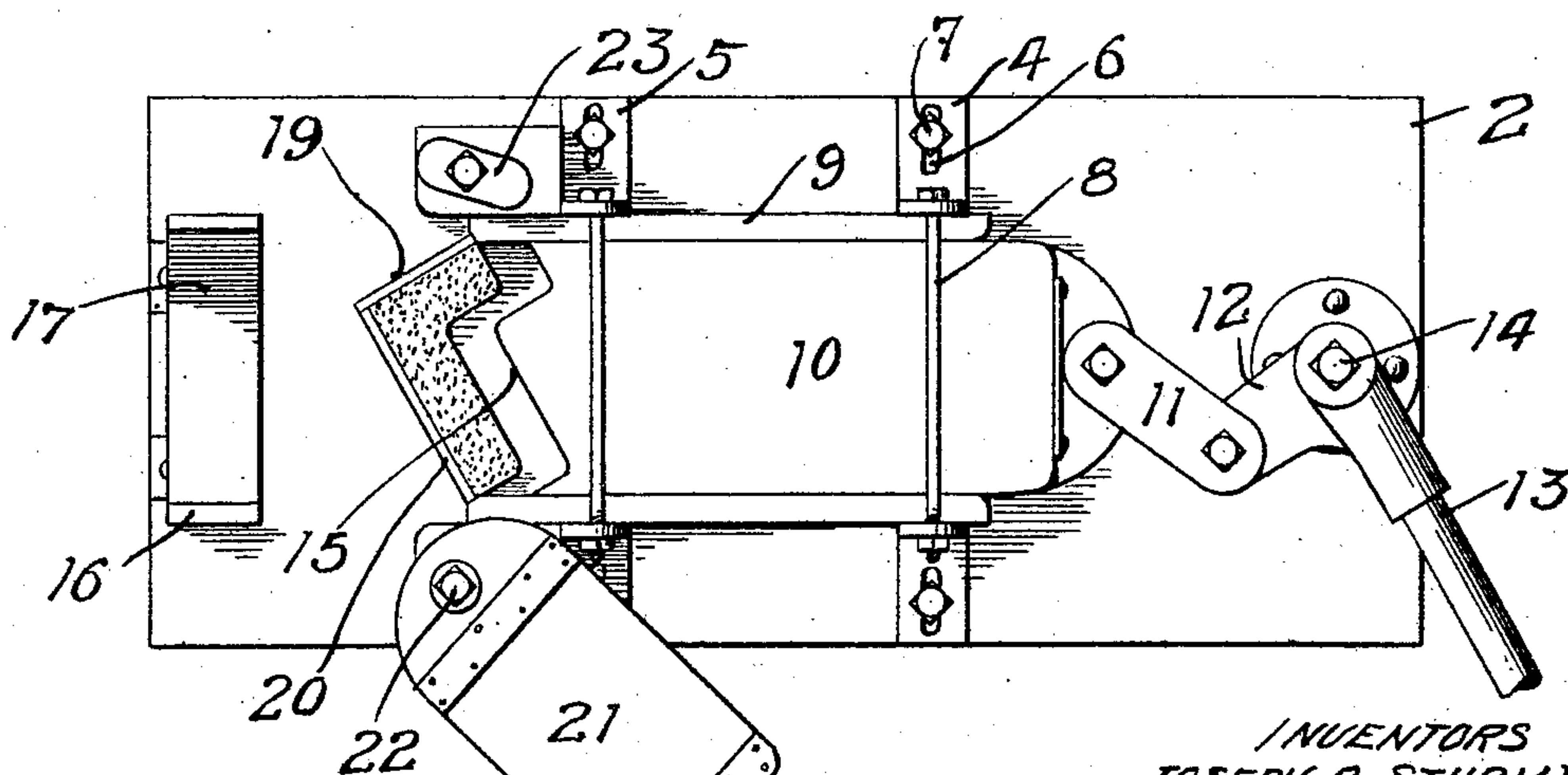
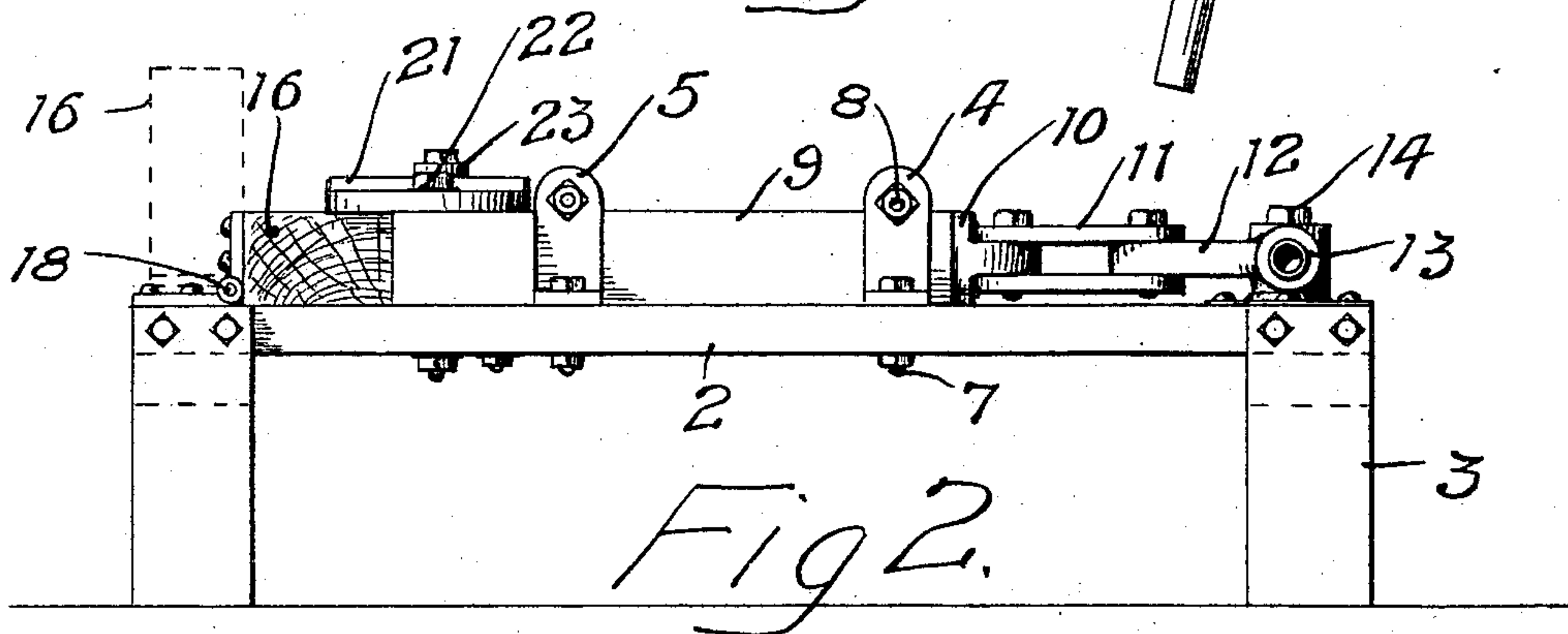
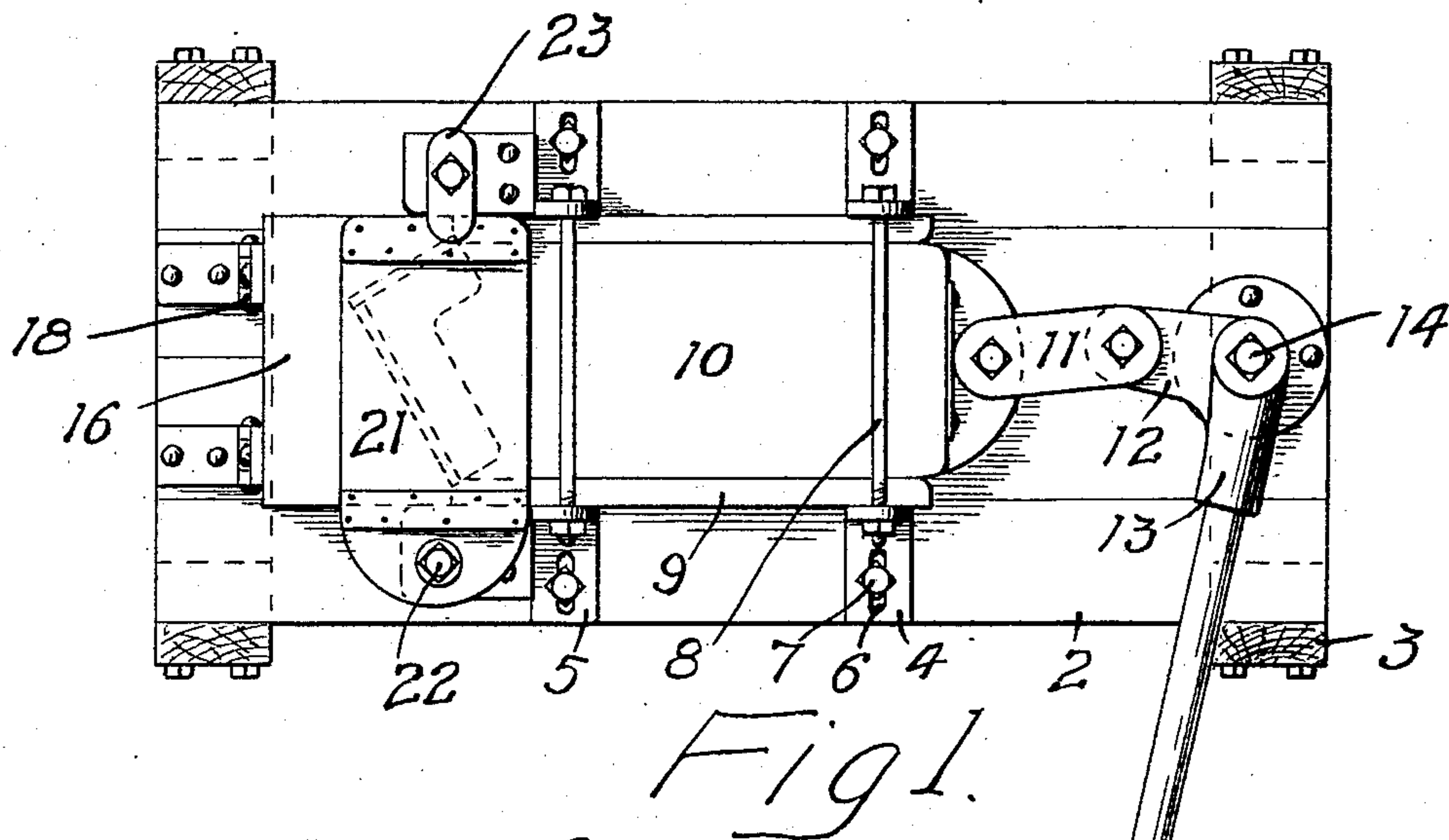


J. A. STUBKJARE, T. F. BURNS & W. C. McCLINTOCK.
MACHINE FOR MOLDING CONCRETE BLOCKS.

APPLICATION FILED MAY 22, 1907.

929,261.

Patented July 27, 1909.



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UNITED STATES PATENT OFFICE.

JOSEPH A. STUBKJARE, THOMAS F. BURNS, AND WILLIAM C. McCLINTOCK, OF TIOGA, NORTH DAKOTA.

MACHINE FOR MOLDING CONCRETE BLOCKS.

No. 929,261.

Specification of Letters Patent.

Patented July 27, 1909.

Application filed May 22, 1907. Serial No. 375,161.

To all whom it may concern:

Be it known that we, JOSEPH A. STUBKJARE, THOMAS F. BURNS, and WILLIAM C. McCLINTOCK, of Tioga, Williams county, North Dakota, have invented certain new and useful Improvements in Machines for Molding Concrete Blocks, of which the following is a specification.

The object of our invention is to provide a simple inexpensive machine by means of which a concrete block can be easily and quickly molded without tamping.

A further object is to provide a machine having a large capacity and capable of forming blocks of any size or shape according to the molds or dies employed.

The invention consists generally in various constructions and combinations, all as hereinafter described and particularly pointed out in the claim.

In the accompanying drawings, forming part of this specification, Figure 1 is a plan view of a block-molding machine embodying our invention. Fig. 2 is a side elevation of the same. Fig. 3 is a plan view illustrating the machine opened up after the block has been molded.

In the drawing, 2 represents a suitable base supported upon legs 3.

4 and 5 are brackets arranged in pairs upon said base and adjustable laterally thereon by means of slots 6 and bolts 7. The brackets have upwardly turned inner ends connected by rods 8. The brackets are adjustable toward or from each other to adapt the machine for molding blocks of different length. Guides 9 are provided on each side of the machine contacting with the brackets 4 and 5 and a plunger 10 is slidably arranged on said base between said guides and is pivotally connected by a link 11 with an arm 12 provided on a lever 13 that is pivoted at 14 on the machine frame and is adapted to oscillate in a horizontal plane thereon. Movement of the lever back and forth will reciprocate the plunger 10 lengthwise of the machine. The plunger 10 has a die 15 formed on the end thereof and a block 16 has a correspondingly shaped recess 17 formed therein and is hinged at 18 on the

machine frame. Removable face plates 19 and 20 are preferably provided in the recess 17. The die 15 and the recess 17 cooperate to form an L-shaped block but any other desired shape of block can be formed in the machine by substituting another plunger and mounting a block having a differently shaped socket in place of the block 16. The space between the end of the plunger and the hinged block forms the mold of the machine and the top of the mold box is closed by a plate 21 that is pivoted at 22 to one side of the plunger and is shaped to swing over the mold box and close the top of the same and be locked thereon by a button 23.

In using the machine the space between hinged block and the plunger will be filled with the cement mixture and the cover 21 swung into place and then upon operating the lever 13 the plunger will be moved toward the block 16 to compress the material into the form of the block represented by the dies.

Whenever it is desired to change the form of block the brackets can be readjusted and another plunger substituted for the one shown. As soon as the block has been molded the cover will be swung around to the position indicated in Fig. 3, the plunger withdrawn and upon raising the block 16 to the position indicated by dotted lines in Fig. 2 the completed block will be exposed and may be taken out of the machine, when the operation described may be repeated.

We claim as our invention:

The combination, with a molding table, of brackets mounted thereon, said brackets being adjustable toward and from one another to adapt the device for plungers of different widths, parallel guides carried by said brackets, a plunger slidable horizontally between said guides and having a male die formed thereon at one end, and means attached to the other end of said plunger whereby a reciprocating movement can be imparted thereto, a hinged block arranged on said table in the path of said plunger near said guide and provided with a female die in its face, the space between the operative position of said block and its die and the end of the

plunger when at the limit of its stroke forming a mold box, a plate arranged to cover the space forming said mold box, means for securing said plate and the operation of said
5 plunger compressing the material between it and said block, and said block and plunger being removable to allow the use of others having differently formed dies thereon, substantially as described.

In witness whereof, we have hereunto set our hands this 16th day of May 1907.

JOSEPH A. STUBKJARE.
THOMAS F. BURNS.
WILLIAM C. McCLINTOCK.

Witnesses:

ERNEST BYLIN,
H. F. EASTON.