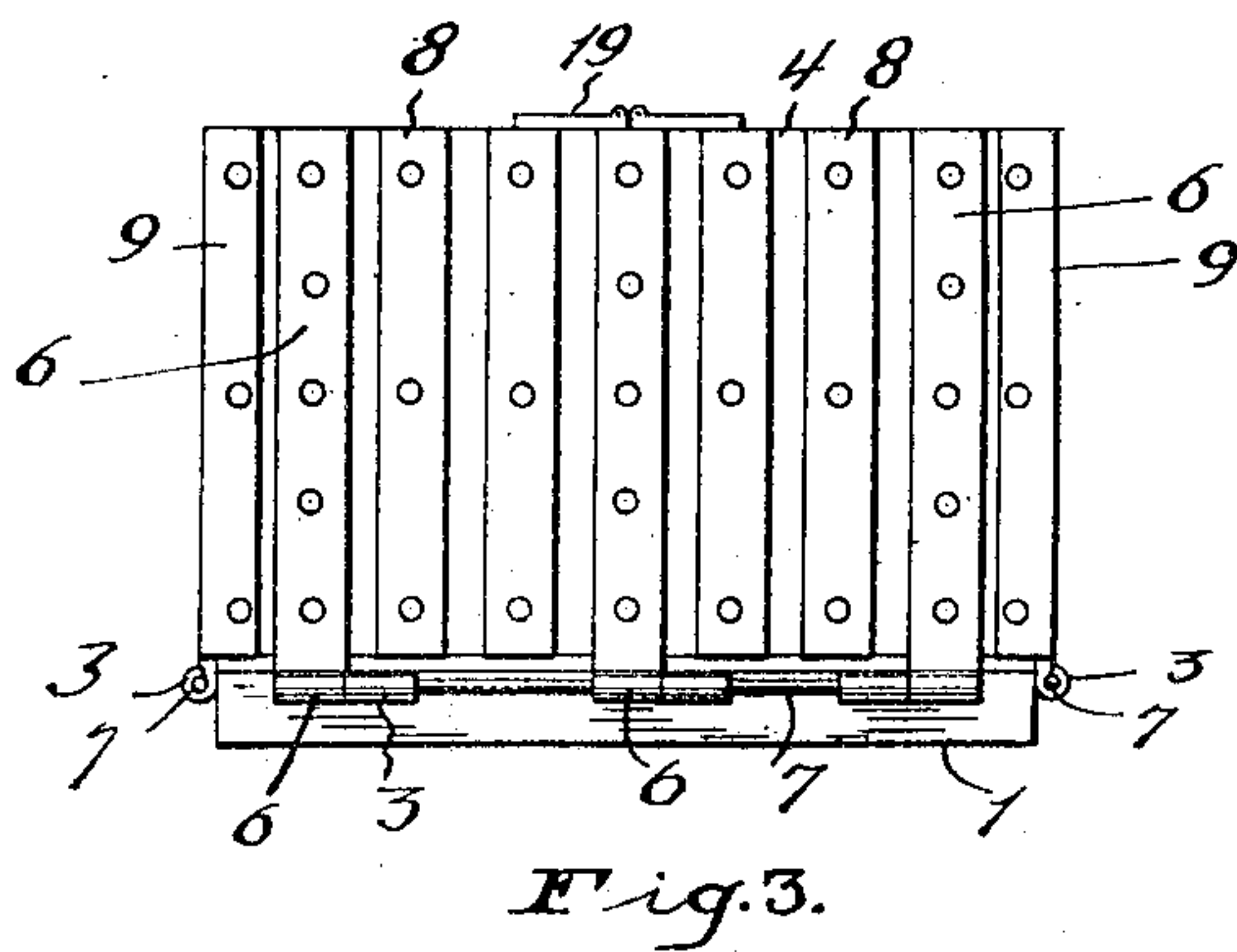
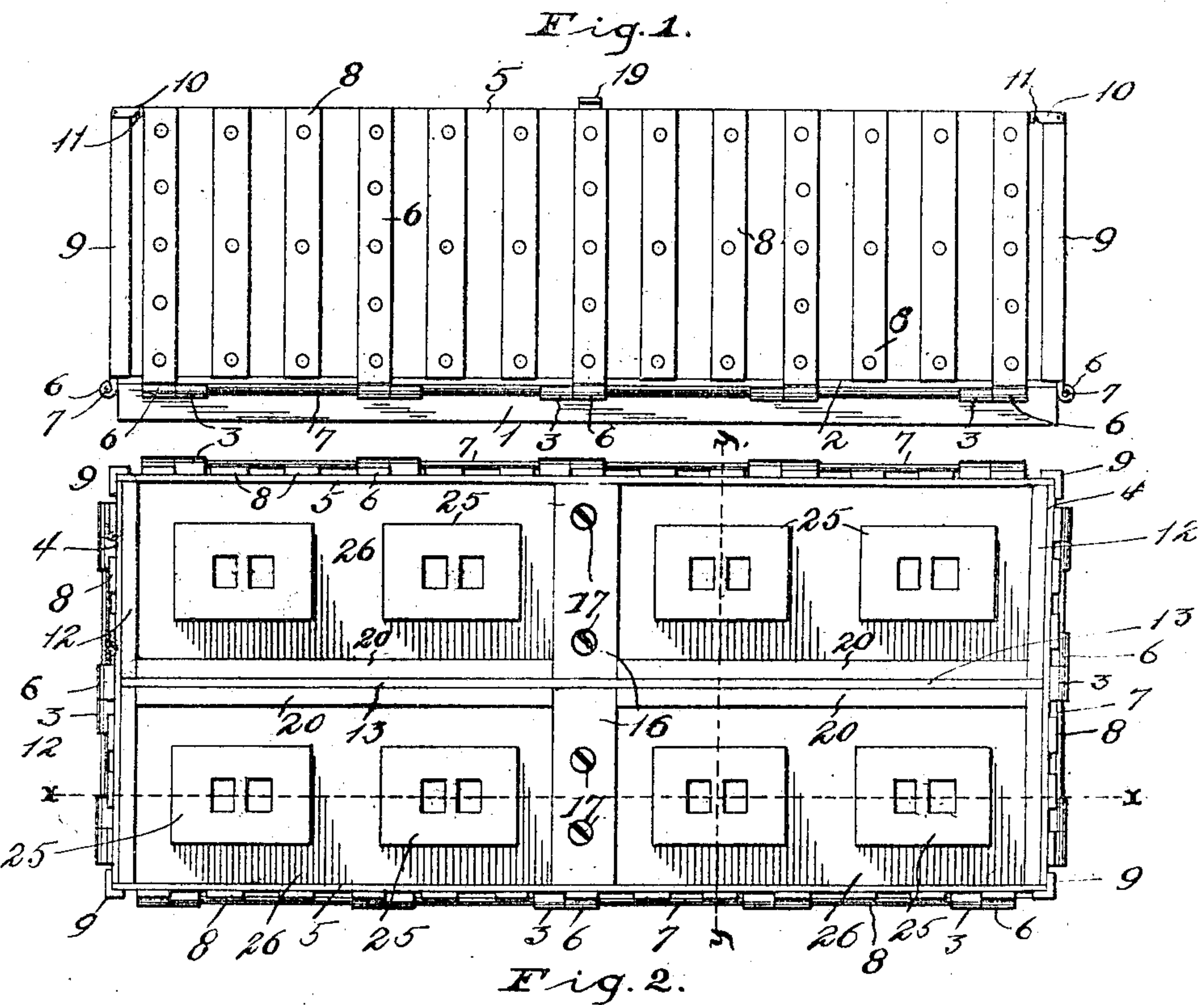


. H. FISHER.  
MOLD BOX.

APPLICATION FILED MAY 11, 1905.

2 SHEETS—SHEET 1.



WITNESSES:

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*M. M. M. M. M.*

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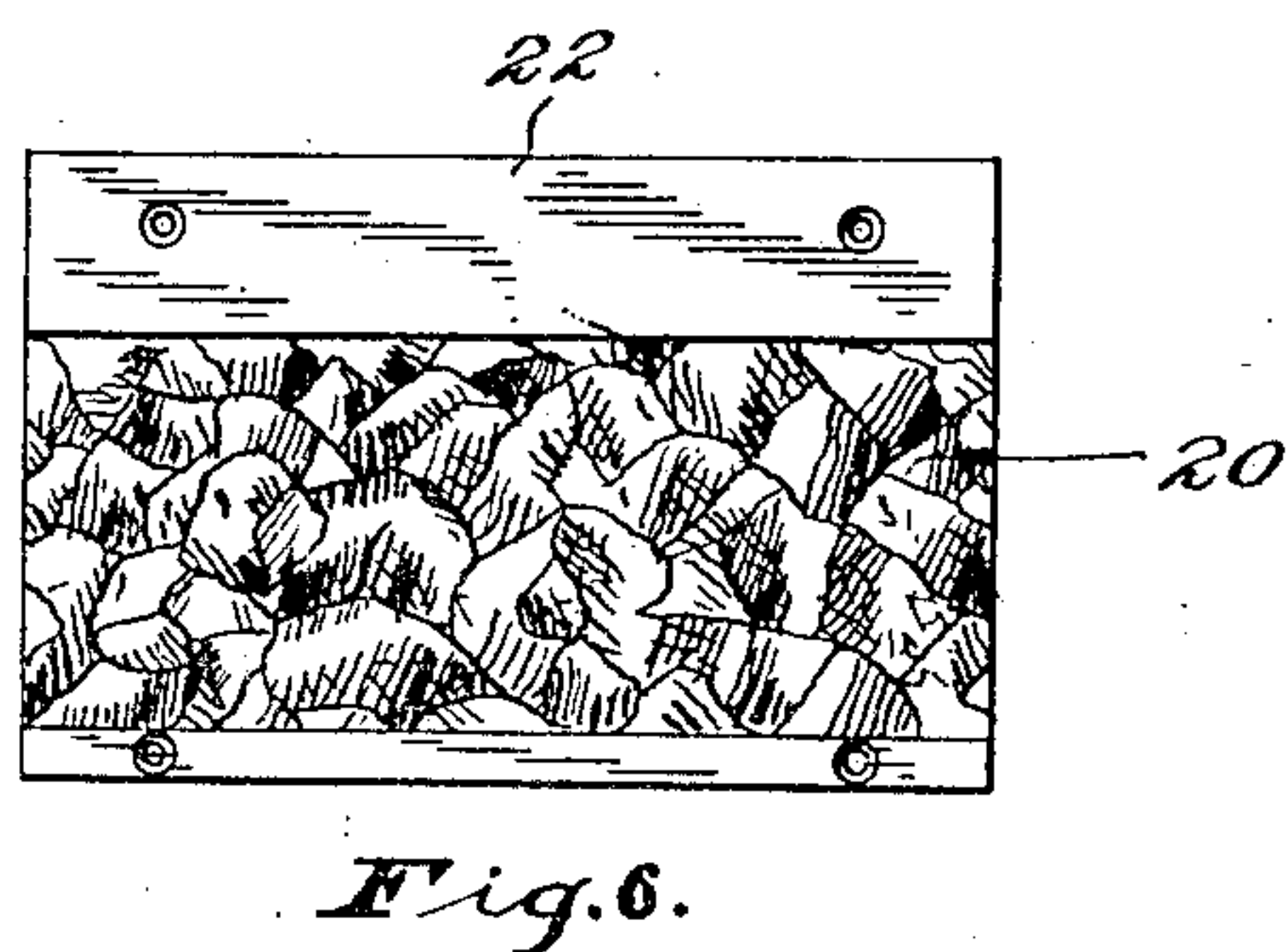
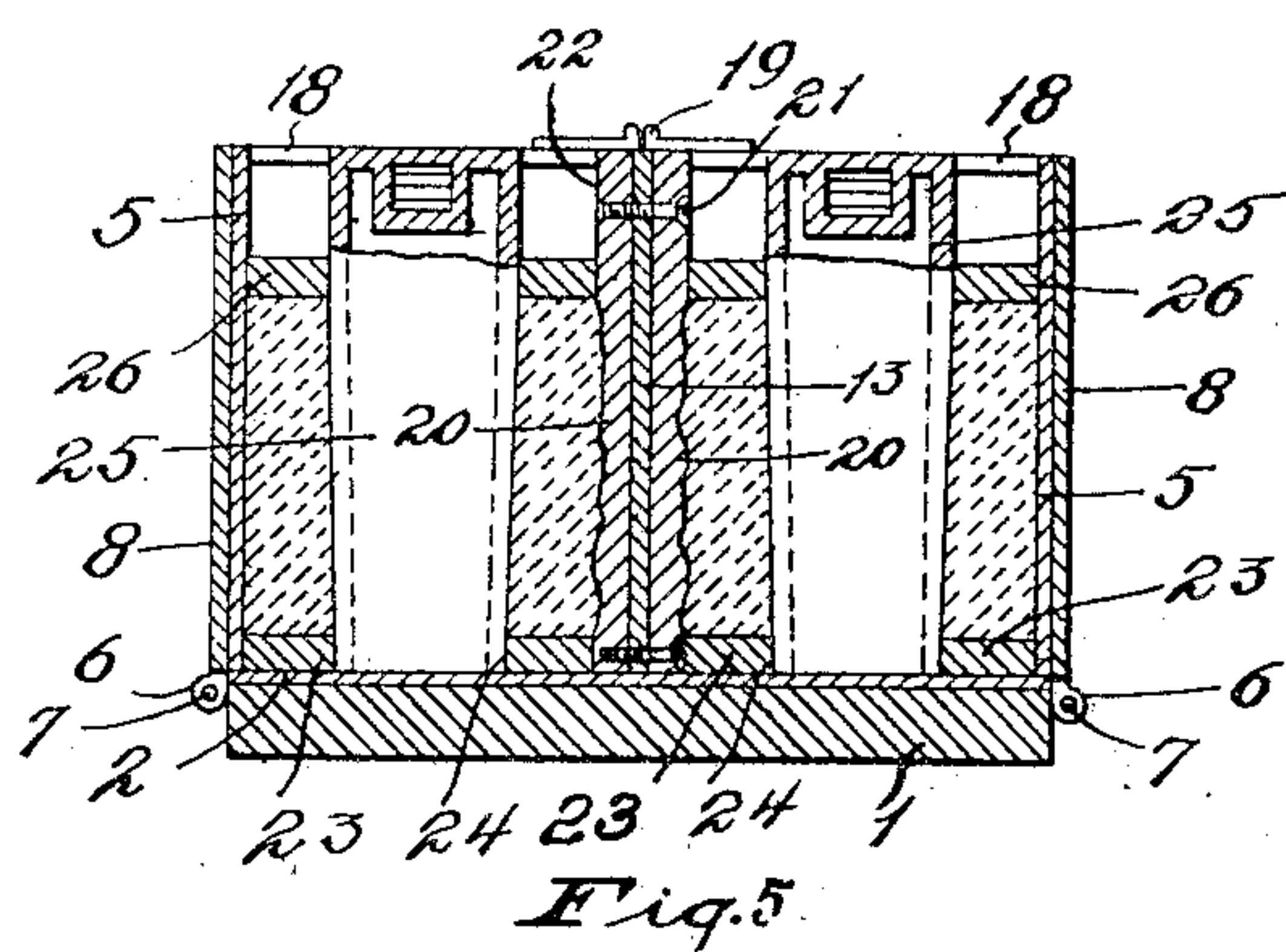
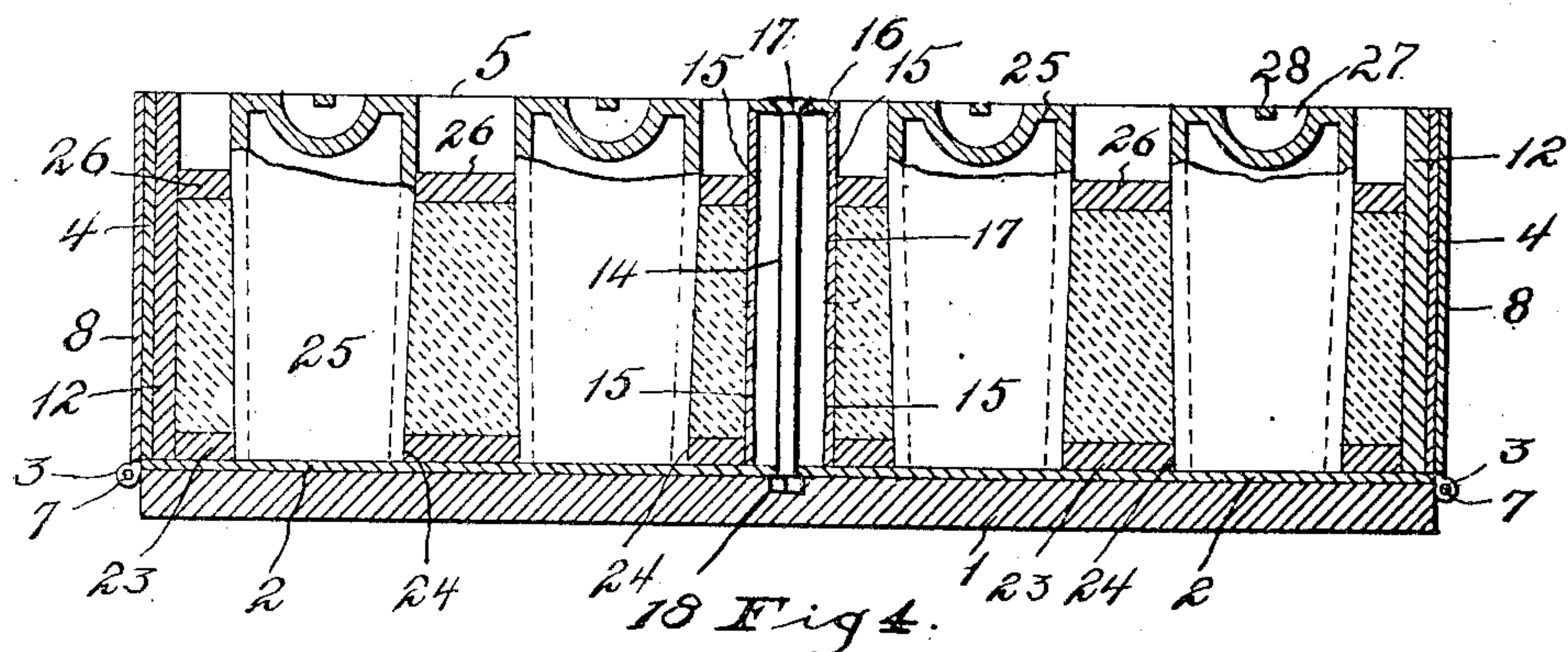
No. 819,055.

PATENTED MAY 1, 1906.

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MOLD BOX.

APPLICATION FILED MAY 11, 1905.

2 SHEETS—SHEET 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

WILLIS H. FISHER, OF MOUNT GILEAD, OHIO.

## MOLD-BOX.

No. 819,055.

Specification of Letters Patent.

Patented May 1, 1906.

Application filed May 11, 1905. Serial No. 260,012.

*To all whom it may concern:*

Be it known that I, WILLIS H. FISHER, a citizen of the United States of America, and a resident of Mount Gilead, Morrow county, Ohio, have invented certain new and useful Improvements in Mold-Boxes, of which the following is a specification.

My invention relates to certain new and useful improvements in mold-boxes; and the object of my invention is to provide a mold-box which is especially designed to be used in connection with power-presses and which is adapted to form a plurality of blocks of artificial stone at a single operation.

It is to be noted that this box may be used in other connections, and, if desired, the material to form the artificial stone or block may be tamped by hand or otherwise.

With these objects in view my invention consists in novel details of construction and operation, the preferred form of which will be first described in connection with the accompanying drawings.

Referring to the drawings, wherein the same reference-numeral is used to designate the same part wherever it occurs, Figure 1 is a side elevation of a mold-box made in accordance with my invention. Fig. 2 is a plan view. Fig. 3 is an end elevation. Fig. 4 is a longitudinal section taken on line *x x* of Fig. 2. Fig. 5 is a transverse section taken on line *y y* of Fig. 2. Fig. 6 is a face view of one of the ornamenting plates or dies which are used to form an ornamental-faced block.

1 designates the base of the box, which, if desired, may be mounted upon a truck or other suitable means if the box is to be used in connection with a press.

2 designates the bottom of the mold-box proper and rests upon the top of the base 1.

3 designates hinge-lugs which project from the sides and ends of the bottom, to which are hinged the end doors 4 and side doors or wing-plates 5 of the box. Secured upon the outside of the end and side doors are the members 6 of the hinges, which are connected to the hinge-lugs 3 by suitable pintles 7. Preferably and as shown the hinged members 6 are in the form of long strap-hinges and serve to reinforce and stiffen the sides and ends of the mold-box. Between these strap-hinges I preferably place additional strengthening-straps 8. Preferably this box is formed of metal, such as steel, and the straps 8 and 6 are riveted to the side and end doors. The end doors 4 are provided with

the projections 9, which are adapted to extend over the ends of the side doors or wing-plates 5 when the doors are closed for the purpose of holding said side doors in position. I also provide some means for holding the end doors in position—such, for instance, as the latches 10, pivoted on the projections 9 and adapted to engage the pins 11, secured to the outer face of the side doors 5.

12 designates end plates which are secured to the inner sides of the end doors 4, the plates being separated at their adjacent ends, and into the slots thus formed extends the longitudinal division-plate 13, the plate extending the full length of the box to divide the same into two longitudinal compartments. Extending laterally from each side of the central portion of the division-plate 13 are partitions 14. Preferably and as shown these partitions extend on each side of the division-plate, at the center thereof. Preferably these partitions are formed of a pair of plates 15, which are connected together at the top by a plate 16.

17 represents screws which pass through the top plates 16 of each partition and down through the bottom 2 and into a nut 18, by which the partitions are firmly held in place and yet so that they may be readily removed, if desired.

When it is desired to form ornamental surfaces on the stone, I secure to the division-plate 13 the ornamental plates 20. (Shown in Fig. 6.) These plates are arranged in pairs on opposite sides of the division-plate and preferably are connected together by means of the screw-bolts 21. These facing-plates are formed with a plain face 22, extending from the top of the face a short distance down the face, as clearly shown in Fig. 6, for a purpose to be hereinafter described.

In the bottom of each compartment formed by the division-plate 13 and the partition-plates 14 I preferably place a pallet 23. Preferably each of these pallets is provided with two rectangular openings 24, adapted to receive the lower ends of downwardly-tapering cores 25. The cores fit loosely in the openings 24 and rest upon the bottom 2 of the mold-box. For each compartment I preferably provide a compression-plate 26, which is placed upon the plastic material around the cores 25 and prevents the material from sticking to the head of the press when a press is used. The cores 25 are preferably made hollow, as shown, in order to



lighten them, and they preferably are provided in their upper surfaces with a depression 27, across which extends a pin or bar 28 in order to facilitate the removal of the cores 5 by taking hold of the bar.

It is of course understood that various styles of cores may be used or the cores entirely omitted, if desired. As the facing-plates are removably secured, they may be 10 changed and, if desired, plain faces substituted for the form herein shown, or the plates may be entirely omitted when desired.

The operation of my device is as follows: The facing-plates 20, if the same are used, 15 having been applied to the division-plates 13, the end and side doors closed, and the catches for holding these side doors in position secured, the pallets 23 may be placed in the compartments and the cores 25 inserted with 20 their small ends passing through the openings of the pallets and resting on the bottom 2 of the mold-box. The compartments are now filled with plastic material nearly to the top thereof, leaving enough space remaining to 25 receive the compression-plates 26, which are placed about the cores 25, if the cores are used, and the mold is to be placed in the press. It will be understood that the top of the compression-plate now lies flush with the top of 30 the mold-box. When the mold-box is inserted in the press and the press operated to compress the material into blocks, the plates 26 will be forced downward, and it is to allow of this downward movement of plates 26 that 35 the upper portion of the ornamental blocks is necessary, as by the use of this plain surface the compression-plates may be accurately guided and lateral movement of the plates prevented. It is to be noted that the com- 40 pression-plates 26 not only guide the cores when they are being withdrawn; but prevent them from being clipped off at the corners when removing or loosening the same by the upward movement. The end doors 4 and 45 side doors are now lowered, the latches being first disengaged, and the blocks are free to be removed by removing the pallets 23.

While I have described what I believe to be the preferred form of my invention, I de- 50 sire to have it understood that many changes may be made in the form, construction, and arrangement of the parts without departing from my invention.

Having thus described my invention, what 55 I claim as new, and desire to secure by Letters Patent, is—

1. A mold-box comprising a bottom, side plates and end plates hinged to the bottom, a partition dividing the box into compartments, and a facing-plate mounted upon the parti- 60 tion.

2. A mold-box comprising a bottom, side plates and end plates hinged to the bottom, a partition dividing the box into compart- 65 ments and a facing-plate removably mounted upon the partition.

3. A mold-box comprising a bottom, side plates and end plates hinged to the bottom, a removable pallet provided with core-receiv- 70 ing openings adapted to be placed upon the bottom, downwardly-tapering cores detachably fitting in the openings of the pallet and resting upon the bottom of the box.

4. A mold-box for forming artificial stone and the like provided on one of its sides with 75 a facing-plate, said facing-plate being provided with a plain surface and an ornamental surface below the plain surface whereby a compression-plate may be placed on top of the material to form the block and fit the mold. 80

5. A mold-box provided with a partition adapted to divide the box into compartments, a facing-plate mounted upon the partition, said facing-plate being provided with a plain 85 surface and an ornamental surface below the plain surface, whereby a compression-plate may be placed upon the top of the material to form the block and fit the compartment.

6. A mold-box provided with a partition adapted to divide the box into compartments, 90 a facing-plate removably secured to the partition, said facing-plate being provided with a plain surface and an ornamental surface below the plain surface, whereby a compression-plate may be placed upon the top of 95 the material to form the block and fit the compartment.

7. In a mold-box, the combination with hinged doors, means for dividing the mold- 100 box into compartments, pallets having core-receiving openings arranged in the compartments, removable and detachable cores fitting in the openings of the pallets, and compression-plates having openings adapted to receive the cores. 105

Signed by me at Baltimore, Maryland, this 4th day of May, 1905.

WILLIS H. FISHER.

Witnesses:

GEO. W. HAULENBEEK,  
JNO. P. BULLINGTON.