

(No Model.)

H. HEADLEY.
MANUFACTURE OF KNOB MOLDS.

No. 455,400.

Patented July 7, 1891.

Fig. 1.

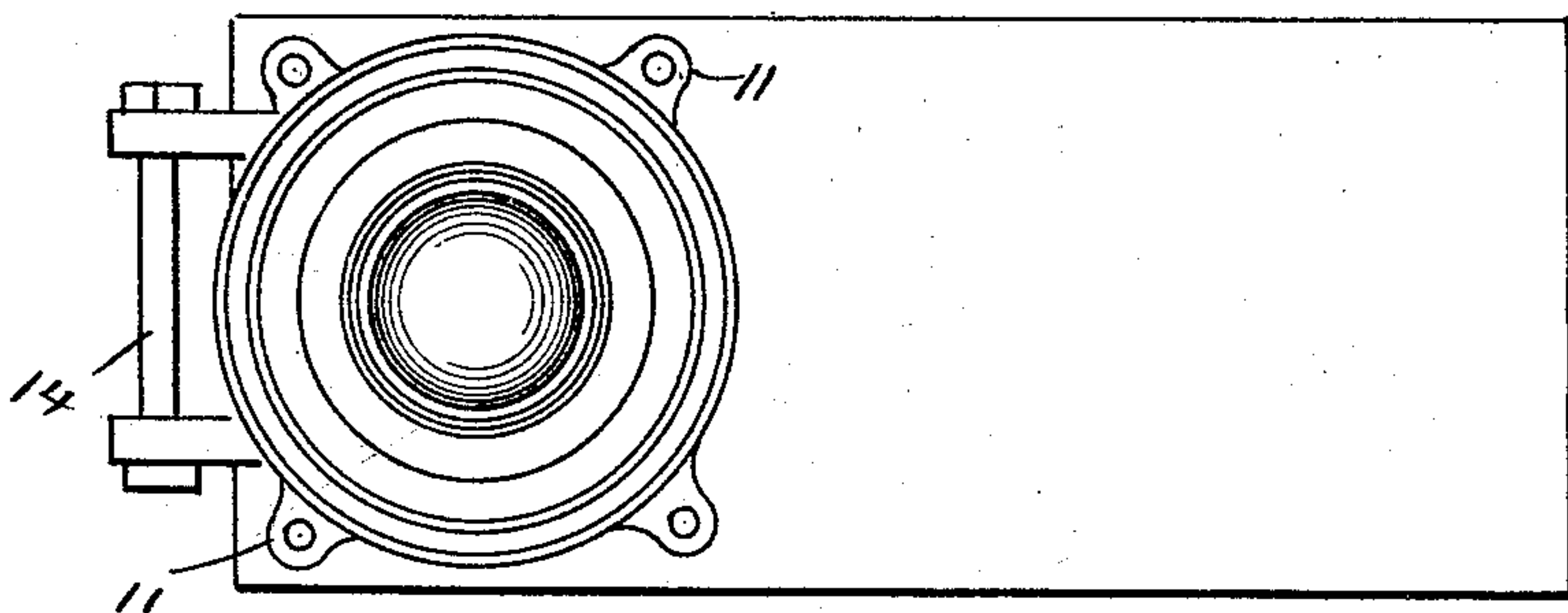


Fig. 2.

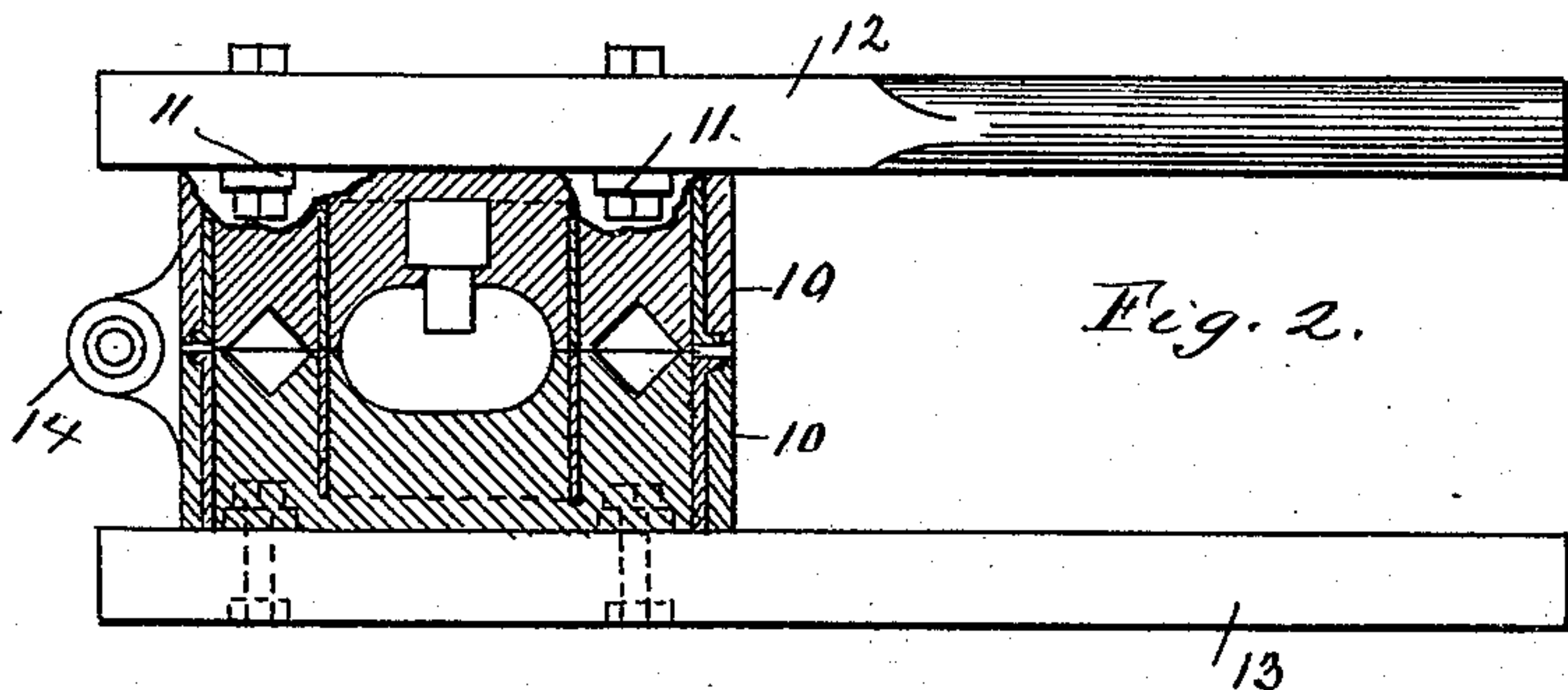


Fig. 3.

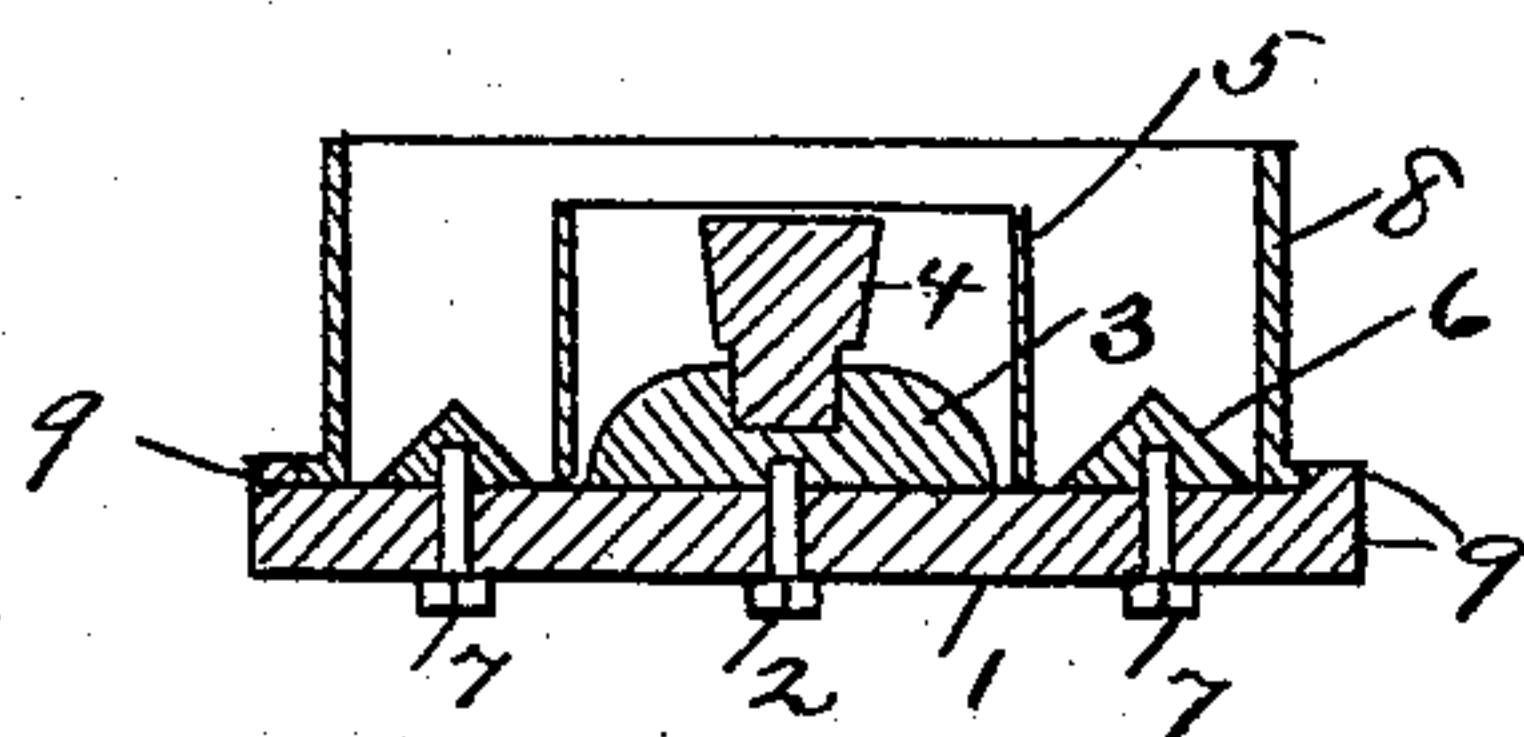


Fig. 4.

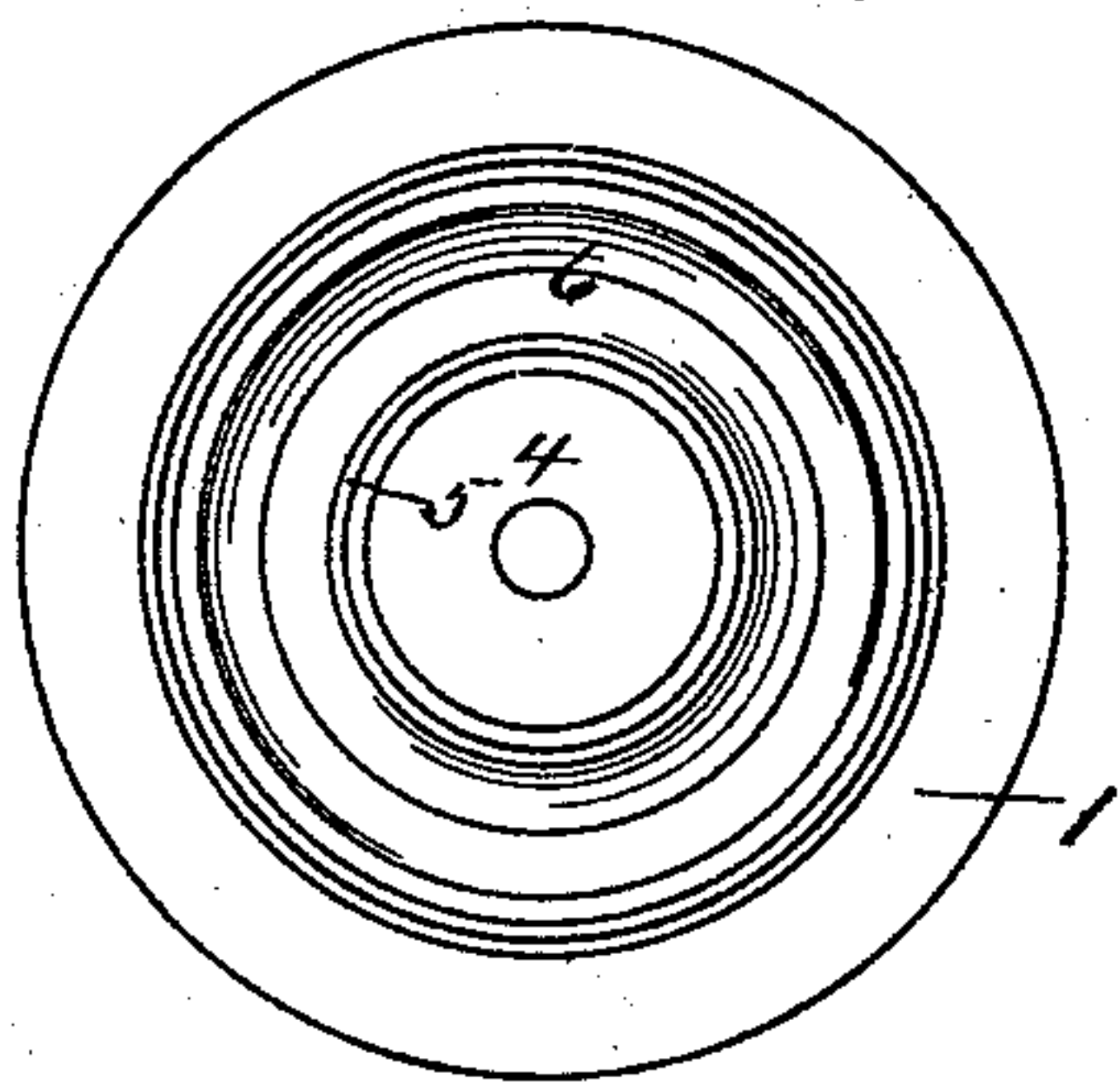
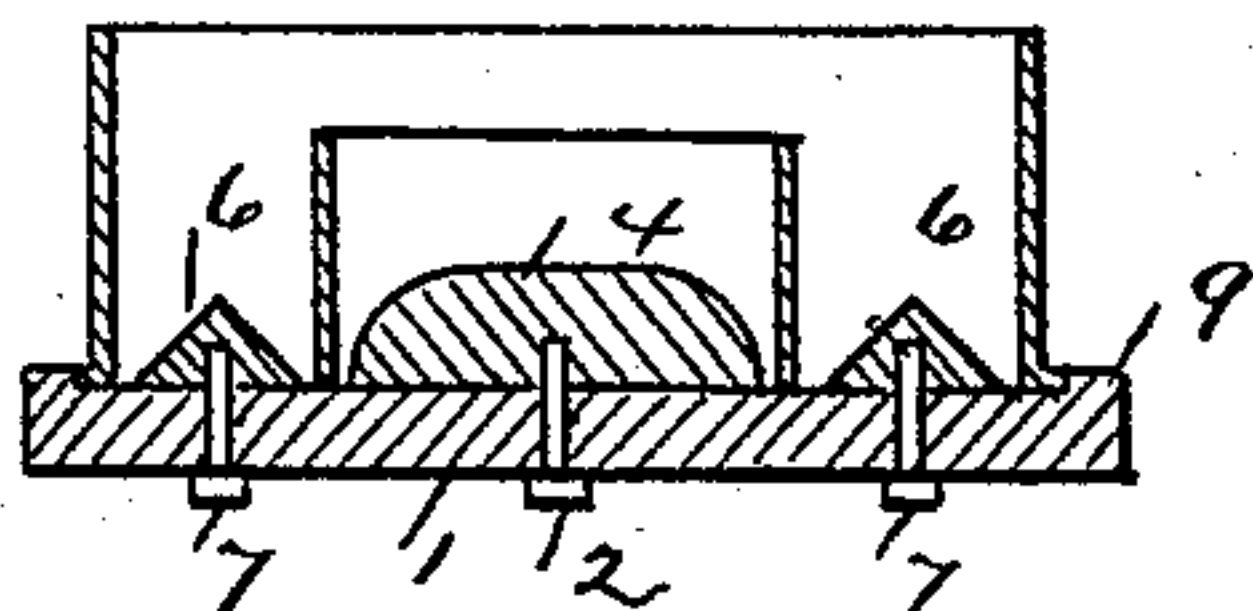


Fig. 5.



Witnesses:

Richard S. Harrison

Rev.

Inventor.

Harry Headley
O. D. Lewis

Att'y

UNITED STATES PATENT OFFICE.

HARRY HEADLEY, OF EAST LIVERPOOL, OHIO, ASSIGNOR TO H. BRUNT & SON, OF SAME PLACE.

MANUFACTURE OF KNOB-MOLDS.

SPECIFICATION forming part of Letters Patent No. 455,400, dated July 7, 1891.

Application filed February 17, 1891. Serial No. 381,762. (No model.)

To all whom it may concern:

Be it known that I, HARRY HEADLEY, a citizen of the United States, residing at East Liverpool, in the county of Columbiana and State of Ohio, have invented certain new and useful Improvements in Running Knob-Molds; and I do hereby 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 pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved apparatus for forming mold-boxes for the manufacture of door-knobs; and it consists in certain details of construction and combination of parts, as will be fully set forth hereinafter.

In the accompanying drawings, Figure 1 is a plan view of a mold formed by my improved apparatus, having the top portion removed. Fig. 2 is a sectional side elevation of the same. Fig. 3 is side sectional elevation of the apparatus used to form the upper half of the above-described mold. Fig. 4 is a plan view of the same. Fig. 5 is a sectional view similar to Fig. 3, for the purpose of forming the lower half of the mold.

To put my invention into practice I provide a circular base-board 1, of a suitable size and form of construction, and attach thereto, by means of a set-screw 2, a semicircular piece 3, equal in form to the one-half of a door-knob and having a circular opening in the top of the same. Placed in this opening is a cylindrical plug 4, which forms a recess in the door-knob to which the iron shank of the same is attached. Surrounding this semicircular piece is an annular metallic ring 5, which is slightly larger in diameter than the piece 3 and serves to shear the surplus clay from the mold proper. Encircling this ring 5 is another 6, angular in cross-section and held in position by means of set-screws 7. This angular ring forms a portion of the waste-clay space. Surrounding this last-described angular ring 6 is a flanged casing 8, which is centered by an upwardly-projecting flange 9, formed integral with the base-board 1. After these several pieces have been arranged as above described the entire space to the top or level

of the outer casing 8 is filled with a suitable mixture of plaster-of-paris and the top smoothed off evenly. This portion of the apparatus is placed in an outer casing 10, provided with lugs 11, for the purpose of attaching the same by means of bolts to a top board 12. After the plaster has become hardened the set-screws 2 and 7 are removed, which will permit the withdrawal of the base-board 1.

Another apparatus is formed in the same manner as before described for the lower half of the mold, except that the semicircular piece in this case is not provided with an opening for the cylindrical plug 4. This last-mentioned device is attached by bolts to a base-board 13 and the base-board 1 removed, as before described. These two parts of the mold are attached by a hinge 14, which will permit the two parts of the mold to be separated and brought accurately together.

In operation the upper half of the mold is revolved back and a small piece of plastic clay suitable for the purpose placed in the mold. The upper half is now revolved back to its former position and a pressure applied. The waste or surplus clay being sheared by the rings 5 drops into the space formed by the two angular rings 6.

By means of this apparatus various sizes of door-knobs may be produced, as the pieces 3, 5, and 6 may be removed and larger or smaller sizes substituted.

Having thus described my invention, I claim—

The herein-described apparatus for manufacturing door-knob molds, consisting of the casing 8, a base-board to center the same, the angular rings 6, detachably secured to said base-board, the deep cylindrical ring 5, placed inside said angular ring, the form 3 and a means for attaching the same to the base-board 1, and the cylindrical plug 4, connected to the form 3, substantially as set forth and described.

In testimony that I claim the foregoing I hereunto affix my signature this 17th day of January, A. D. 1891.

HARRY HEADLEY. [L. s.]

In presence of—

C. C. LEE,

M. E. HARRISON.